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AV vallejo Working with Vallejo we have designed a range of paint sets that cover all of the main nations in Flames Of War, the World War II miniatures game and World War III: Team Yankee.

These sets give you all the main colours that you will need to paint your army.





















The Utility set contains a lot of the core colours needed for painting both WWII and WWIII miniatures.

Combine it with one of the nation specific paint sets and you will have all of the basic paints for that nation













# TOOLS & PREPARATION

Proper preparation and assembly is essential to a well-finished miniature. An unsightly mould line or piece of flash left can spoil the result, no matter how good the paint job is. Before you can begin producing miniature masterpieces, let's look at a selection of some of the basic tools you will require.



#### **PAINTBRUSHES**

The most important pointing tool is obviously a selection of good brushes. Many beginning painters assume that to paint well, they should use the timest brush they can find. In fact, the size of the brush you use is much less important than the shape. For detail work, the bristles of the brush should come to a sharp point. The Drybrush is, as its name suggests, designed especially for the drybrushing technique (see page 14).





#### HOBBY KNIFE

For trimming parts and cleaning casting imperfections before assembly. Using a new, sharp blade is actually safer, because you will not need to apply as much force and you are less likely to slip and out yourself. In any case, remember to always out away from yourself.





#### CLIPPERS

For removing parts from sprues and trimming larger pieces of unwanted material. The flat bottom of the blades lets you get right up close to the model. With plastic parts, though, it is advisable to clip slightly away from the model and trim the excess with the hobby knife, to avoid leaving a scar or mark on the surface.





#### FILES

Also very useful for cleaning parts and making sure everything fits well. They are more effective than a hobby knife at ensuring a smooth, flat surface along straight edges, especially with hard resin parts.





#### PIN VICE

For drilling out small holes in gun barrels and muzzle brakes, etc. Also an ideal way to strengthen fragile joints between parts, by 'pinning' with a piece of metal rod.





#### **TWEEZERS**

For handling and manipulating small parts. These can be indispensable, especially when gluing together models. Often you will find that even if you can position a smallish part quite comfortably with your fargers when dry fitting, it gets much more difficult once glue is involved.





#### **SCULPTING TOOLS**

Great for shaping epoxy putry (Green Stuff or Grey Stuff). Epoxy putry is great for filling unwanted gaps. And, if you feel like a creative challenge, perfect for adding custom details and modifications to models.



#### **AIRBRUSHES**

An airbrush is a wonderfully useful tool that can really help with a lot of painting tasks. It is considered almost indispensable by larger-scale modellers.

However, investing in an airbrush and compressor is a big decision. Many inexpensive models are available, and while they may seem like a bargain, you get what you pay for. Most cheap airbrushes come with a variety of pitfalls and difficulties that are likely to francrate and discourage novice users.

A good-quality airbrush and compressor will cost hundreds of dollars at least, and may in fact be the biggest single hobby investment you make.

An airbrush can speed up undercoating, basecosting, highlighting, and allow you to easily paint soft-edge camouflage schemes. But they are certainly not a required piece of equipment.

In fact, airbrushing it such a broad subject that it lies outside the scope of this book, so we will not be covering it in detail.

There are plenty of how-to guides available online if you want to know more.



#### AIRBRUSHES AND VALLEJO PAINTS

If you already own an airbrush, or if you decide to add one to your hobby arsenal, then you can use it to apply Vallejo paints without difficulty. You can thin Vallejo Model Colour paints to a suitable consistency with Vallejo Airbrush Thinner (71.161) or with Vallejo Airbrush Chaner. Airbrushing with Vallejo paints makes it easy to ensure an exact match, which may not always the case if you use a mix of paint ranges. Vallejo also make a range of Model Air paints, specifically for airbrushing, if you want

Valleje also make a range of Model Air paints, specifically for airbrashing, if you want to go that route, however these are challenging to brush paint with.

#### ASSEMBLING PLASTIC MINIATURES



Battlefronts Fiames Of War and Word War III.

Team Yamber miniatures are quick and easy to assemble. Vehicle box sets often include parts to build multiple vehicle types, and some plastic frames are common across different hox sets. Each box has a parts guide showing what all the options are. This guide and the pictures on the box should be all you need to assemble your vehicle.

However, if there is something you're masure of, every box set has an in-depth step-by-step guide on our website. Simply scan the QR code to go straight to the product speclight.





REMOVE PARTS FROM THE FRAME using a pair of plastic cutters. Place the flat edge of the cutters against the part you want to remove and snip. To avoid damaging parts, it pays to leave a bit of extra sprue on the piece and clean it up later with a knife.

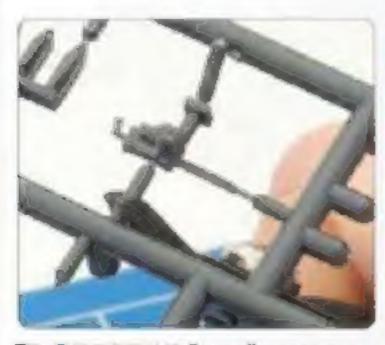


TRIM THE PART using a hobby knife to catefully shave the feed point off the components.

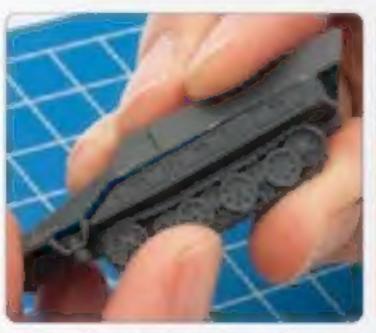


MOULD LINES can be easily cleaned off by scraping with a sharp knife gently along the surface.

On larger pieces like gun batrels, using a file will help to give a smoother finish.



TIP - CLIP THE FRAME: For small components like AA machine-guns, it pays to cut the frame into pieces first; sometimes clipping the part straight from the frame creates enough stress to damage the part you are clipping out.



DRY PIT! One of the most important things to do is test-fit the pieces before applying any glue. This will ensure that you spot any fitting issues that may rain your finish, like in the example above where some feeds haven't been trummed properly and are preventing a clean join.



GLUE: Once you are happy with the fit, apply the appropriate glue sparingly to the parts and press together. Polystyrene coment is the best choice for joining hard plastic pieces, at it will melt the plastic slightly and weld the parts together.

#### ASSEMBLING METAL AND RESIN MODELS

While the Flames Of War and Word War III. Team Yankee plastic range is getting larger all the time, a portion of the Bartlefront Miniatures range is made up of kits combining resin, metal, and plastic parts.

You can use the same techniques to clean up the pieces as you would for plastic parts, however there are a few other tips and tricks to use.



Mould lines and flashing are unfortunate side effects of the casting process, but are easily cleaned off. The miniature above has been selected to show particularly bad mould lines. Should you ever find a model like this, get in touch with us at customerservice@battlefront.co.nz so we can replace it with the quality model you should be getting in every pack. Most of the time, a scrape with a hobby knife or a small amount of filing with a needle file is all that is needed to clean up a metal figure.



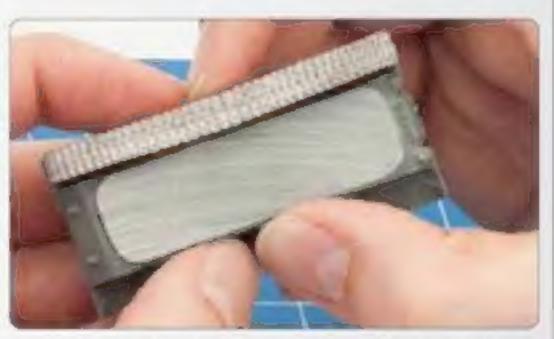
Battlefronts produces infantry in the same hard plastic as our tanks, and a slightly softer plastic that allows us to design the figures without the compromises that have to made for hard plastic, since the softer plastic is able to flex as it comes out of the mould.

Unlike metal miniatures, where you scrape mould lines to clean them up, with the plantic figures it is better to cut the mould lines off.

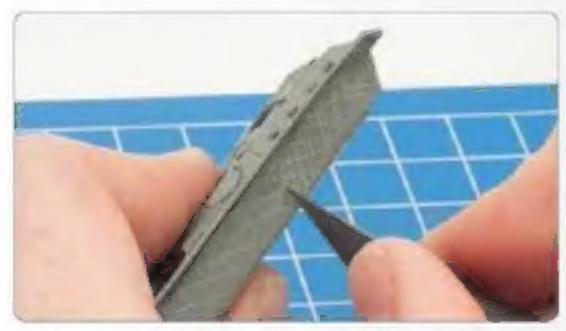


The metal and tesio components of your Battleftont miniatures may have some residual powder or oils on them from the casting process that need to be cleaned off to allow the paint to adhere properly to the surface. You can clean it off easily with warm soapy water.

Any imperfections in the resin or metal parts should be carefully removed with a hobby knife or file. This may result in a chunk of resin snapping off.



TEST-FIT! TEST-FIT! TEST-FIT! Due to the nature of metal and resin and their interaction there will sometimes be some extra work required to make adjustments to get the best fit possible - the odd bump or lump filed off, metal part straightened, etc. But it's worth that time and effort to make sure the final tank or AFV looks great after the paint goes on. Be sure to test fit again after you make any modifications.



For the strongest bond, we recommend scouring lines on any large flat surfaces that need to be glued together. Before gluing any parts together make sure that they are clean of any dust or resin shavings.



Apply superglue sparingly and press the parts together and hold for a few seconds. If you want a faster bond, apply superglue to one piece, and accelerant to the other before pressing the parts together.

#### UNDERCOATING MINIATURES

Undercoating is a vital step in the painting process. Just as a house needs a strong foundation, a good paint job needs a smooth, durable undercoat to make it easier to apply the colours, and to stop your hard work from chipping or rubbing off. The first layer of paint needs to adhere to the material of the model and provide a smooth, even surface for the subsequent layers. It doesn't matter what type of paint you use, as long as it provides a tough, matt surface without filling in or hiding details on the model.



Every hobbyist has a favourite undercoating technique, but the most common is a sprayed-on black undercoat from an acrosol can. That way if any spots are accidentally missed, they will be dark and inconspicuous.

Some painters prefer white or grey primer, because it gives colours a brighter finish, while colours sometimes appear more muted when applied over black.



Before spraying your miniature, make sure you read the instructions on the apray can. Most importantly, shake the can vigorously for about a minute to mix the paint with the propellant.

To spray your models, hold the can about \$7/20cm away from your miniatures and spray across the models in short, controlled bursts.

If you are brushing on a basecoat (see page 12) a good rule of thumb is to paint dark colours like Camouflage Olive Green over a black undercoat, and light colours like Dark Sand over a white or grey undercoat.

Vallejo coloured primer cans are an ideal option. They save you time by priming models in an exact colour match for the appropriate paint



Always undercoat the difficult places to see and reach first. We usually start by turning vehicles upside down for the first coat of paint.

TiP: There is enough pressure in a spray can to blow light plastic mintatures around, so consider sticking them down to your spray surface with double-sided tape.



You don't need to cover your miniature in paint all in one go. If you apply paint too thickly, it can pool in the recesses and clog up the detail.

It is better to apply two or three light coats, each time spraying from a different angle.



No matter how much you try, you'll never get spray paint into every nook and cranny.

Once you're happy with the spray undercoat, use a medium brush and some black paint or appropriately coloured paint to much up anywhere that the spray undercoat mused.

#### MOUNTING FOR PAINTING

There is an age-old debate among miniature painters—do you mount the miniatures on their bases before or after they are painted. There is no right answer to this question. The method you use totally depends on what feels comfortable to you.



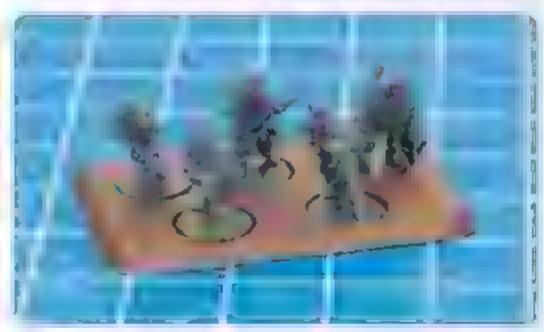
Mounting infantry miniatures individually on strips of card, populate sticks, or even small bases allows you to handle them and have easy access to painting them without any of the miniatures being obscured by any other. You can space them out enough to allow room to paint every detail on each in manage. This is how we have painted many of the m natures a thit book



Another popular method for mounting infantry (and guns and tank turrers, for that matter) is gluing each one, or attach ng it with tilla-Tack, to a handle such as piece of dowel, a large nail or a clothes peg. The handles can be slotted into pre-drilled holes in a piece of wood to hold them upright while they are drying between layers or coats.



Heavier miniatures like tanks can also be mounted on any convenient handle, such as old paint bottles of a larger section of dowel. Make sure the handle is large and heavy enough that the rank won't be 100 topheavy. The handle less you keep fingers away from the models during painting, and allows them to be set down for drying without damaging the paint



Some painters prefer to mount their miniatures on their fina, bases before painting, as their aryle doesn't require loss of detail work and this saves a step later. Many painters that use this method add the filler to the base (see page 17) before painting and then paint the miniatures and base ingether.

EXPERT TIP



## THE COLOURS OF WAR PAINTING SYSTEM

Whether you have never painted before or have years of experience, this book is a tool to help you get the most out of your Flames Of War and Word War Ille Team Yankee models. Our books have always had basic painting guides, but we have never been able to provide as much information as we would like. Working with Vallejo has opened up a massive paint range that they have been developing and refining for decades. We have scoured their paint range and come up with a collection of sets that cover all of the basic colours you need to paint your armies for the tabletop.

Vallejo paints are high-quality acrylic paints that have a very high pigment content to make it easy to achieve an even coverage with rich, solid colour. The colours have been fine-runed with wargaming miniatures in mind - historically appropriate, yet y brant enough to stand out on the gaming table.

We took all of the colours that always seem indispensable, no matter the army and combined them into a universal core set the Unlity Set. Then each of the major nations has its own colour set, with the correct colours for their unique equipment

With just the Utility and the appropriate mation-specific set, you will have all the colours you need to paint your army. Gertain intermediate and advanced tasks will use a wider variety of colours, so over time you may wish to expand your paint collection with add tional sets, or specific individual paints from the Vallejo Model Colour range (see page 1.35) giving you more

options and versatility. To paint a standard army, those two sets should be all you need.

World War II Germans have a lot of variety and colour in their equipment, so they have three sets - one for infantry, one for 55 infantry, and one for tanks and other vehicles.

Armies for World War III tend to have more complex paint schemes, so tend to have slightly larger paint sets.

It should go without saying that all of the suggestions in Cotours Of War are open to interpretation. If you have your own ways you prefer to paint certain items, then by all means integrate those as you wish and feel free to experiment.



#### HOW TO READ THE PAINTING GUIDES

Colours Of War pointing guides began with a list of the paint colours you will need for that task

Each individual step includes several key pieces of information including a colour swatch, suggested brush size and a brief description of how to apply the paint.

To make at easier to see the details of the point job, in antry models are shown much larger than actual size. The figure is also displayed at actual size at the end of each stage, to show you what your miniatures will actually look like.

Since vehicles are large enough to see what's going on, they will usually be shown at approximately 100%, although some details have been shown larger



PAINT patches of Luftwaffe Caran Green between the brown, again aiming for pagged, angular shapes

#### **CHEVRON SYSTEM**

Each painting step has a symbol indicating its relative level of difficulty, complexity or how time-consuming it is. Use these as a guide to whether a suggested technique is appropriate to your level of painting confidence, or how much time you have,

- A good but basic gaming standard. These steps will not assume you have any paints beyond the Unity and your national paint set.
- Intermediate techniques for people who want a higher quality gaming standard
- An advanced finish that other gamers will envy
- For traily dedicated painters only.

## LIGHT AND SHADE

All modellers know that miniatures are not just toys! And this means we want to paint them to look as realistic as possible. At first glance, you might think this means we want our miniatures to look like men and tanks that have been shrunk to a tiny size. But a petter way to think about it is to imagine looking at the real subjects from severa, hundred mettes away. Obviously not as much detail will be visible, so the models are simplified accordingly. That's a good thing, because most people are not keen to paint eyes on 15mm scale figures (although it certainly can be done).

The way that light falls on an object differs depending on its size. Light travels in a straight line, so it may seem that size should not affect how an object casts a shadow, merely its shape. But light is scattered and dispersed by the armosphere, and it is bounced and reflected in different ways by every surface at hits. So in practice, small objects just do not have the same level of contrast in their shading, Imagine how dark it would be in the deep shadows at the back of a large cave, compared to a scale model of the cave 1/100<sup>th</sup> the size.

This means that we have to paint the appropriate shading, lightening the colours on raised surfaces that reflect the most light and darkening the colours in recesses and underhangs, to create the illusion of a large item viewed from a distance. Scale distance also has an effect on colour. Because of the way the atmosphere scatters and diffuses light, distant objects appear paler and hazier than near ones. Artists refer to this as 'aerial perspective.



In short, highlighting and shading is a vital part of miniature painting. You will see it described by a variety of fancy-sounding names like 'chiaroscuro' and 'modulation'. If all of this sounds a little complex and intimidating, don't worry - the tricks and techniques in this book will make it quicker and easier than you may think to effectively shade your miniatures.

Over the sorts of scale 'distances' involved with 1/100° scale minigitures, serial perspective is a small and subtle effect, but a genuine one. For this reason, it is reasonable and realistic for paint colours to be rightened very slightly in tone, in comparison to the true historical colour. Plus, lighter models just tend to look better on the table. This isn't something you need to put a lot of thought into – it has been taken into consideration with the colour choice of some of the Vallejo paints



This photograph of a Waffen-SS parka shows have the full of light and shadou conveys its shape and consours.



A mitisature painted without shading does have some natural students, but its small size is nevertheless apparent

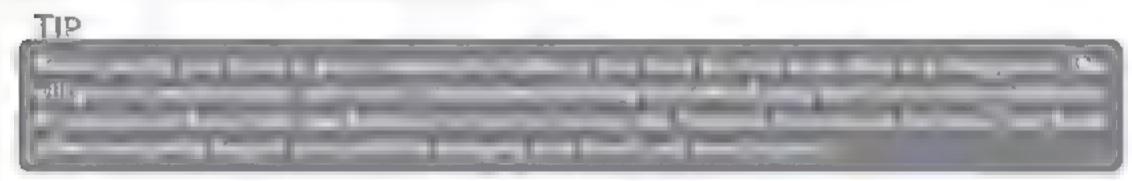


The same minuature painted with highlights and shadous has a much greater sense of volume and realism.

Even if all the colours on a miniature are painted neatly, without any shading it will always look the exactiv what it is: a toy soldier, if anything neatness and accuracy are less important than effective shading. If a model is well shaded and high ighted, as long as it gives the right impression of detail the eye will fill in the rest.

## PAINTING TECHNIQUES

Before we launch into the specifics of painting Battlefront models, well begin by devoting a few pages to the theory and technique of painting. The only way to develop the fundamentals of painting - brush control, accuracy, the 'fee,' of how paint flows on to a surface - is by practising it yourself



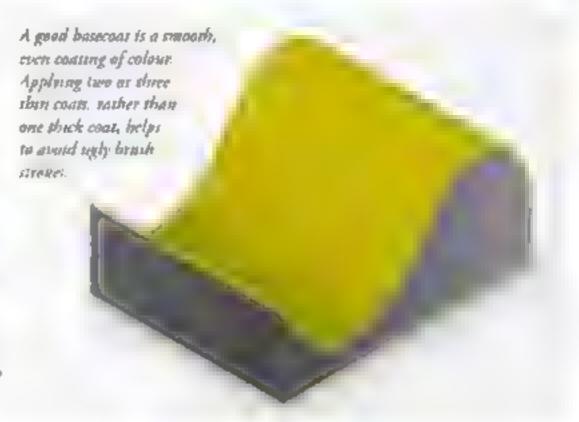
#### BASECOATING

The basecoar is the first layer of colour. On a vehicle, it will usually be one colour, while on an infantry figure it will consist of an appropriate colour for the uniform, the flesh areas, and each different item of gran

When brushing on a basecoat, be careful not to apply the paint too thickly, or you may risk covering up the densit of the model. Vallejo can be used straight our of the bottle, however benefit from a little bit of thousing with a little clean water. You can use them straight from the bottle if you keep your brush moist.

Alternatively, enleared spray primers are a fantastic option, because they are a primer (see page 8) and basecoat in one easy step

A very common method of painting is to basecoat with a shadow colour — tim far to the main colour but darker in tone. The main colour is then painted over this in a solid tayer, leaving some of the darker colour showing in recessed areas which would not catch much light. Highlights can also be added, with a lighter version of the main colour painted on so raised detail.



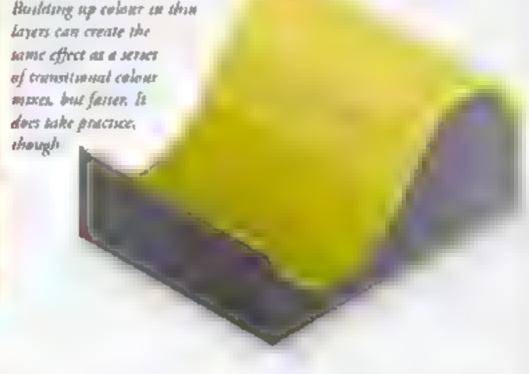
#### LAYERING

Acrytic paint is very versatile. It can be transparent or opaque, depending on how thickly it is applied. You can learn to use this property to your advantage.



A great way to learn to blend effectively using layering is to simply practise on a flat surface, experimenting to see what different marks and effects you can create

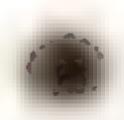
With practice, by controlling the amount of paint on your brush, you can build up colour in several transparent layers, creating a smooth transaction between two colours.











Just a few examples of the totally different tones and effects achie able just with black paint, simply by diluting it to varying degrees with water and by controlling how much paint is 'loaded' on the brush

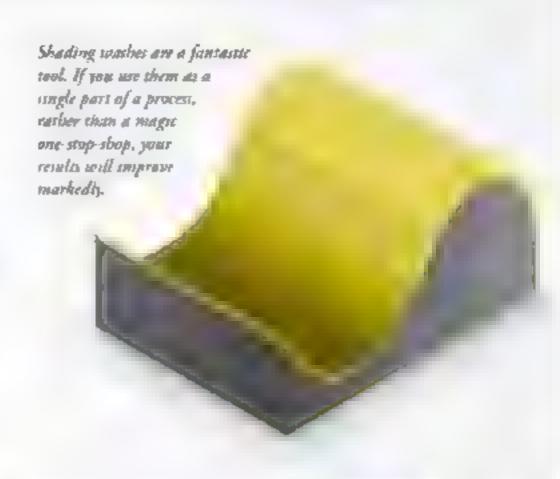
#### **WASHES**

Washes are a quick and easy way of adding shadows and accentuating detail. They are essentially a thin application of colour, liquid enough to let the pigment settle mainly in the recesses, darkening these areas and adding depth

A wash can be done with regular paint diluted with water, but it will be a livele crude and messy. As the water evaporates, the diluted pigment tends to 'creep' out of place, leaving you with a messy tide line of color it. Valleto shades combine intense pigment with a transparent, highly fluid medium. Their low viscosity causes the pigment to run smoothly into the cracks and recesses and stay there as it dries, giving much better contrast than a simple paint wash

The Util ty set contains two washes, a Black Wash and a Sepia wash Most of the examples in this book use one of these two colours for shading, however you can substitute them for each-other for different effects - you will not get exactly the pictured colour result, but it will nevertheless produce effective shading. You can also experiment with adult g a few drops of paint to your washes to get a variety of different effects.

When using these washes, try to achieve an even coverage over the whole talk. Let the wash pool a little bit in the recesses without building up too much on flat surfaces. If you want a deeper shadow, do a second, targeted wash in the panel lines rather than a single thick coat as the wash may cloud as it dries if applied too thickly.





Washes are good, but they are not magic, and they won't always behave exactly how you want them to

They won't always stay where you want them, and some will pool in areas where you didn't want the colour to be darkened. The larger the area heling washed, the more likely this is to be a problem



While wantes on infantry figures are quite forgiving, vehicles, which have plenty of large flat areas, sometimes need tidying up after a work. Often a careful drybrush of the basecoat colour is enough to tidy up the stray shade. In other cases, you may choose to use your medium brush to strategically layer the basecoat colour over especially tressy areas.

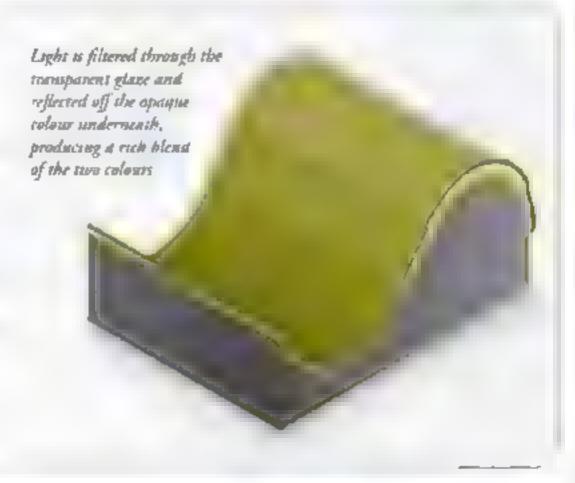
#### **GLAZES**

When a transporters wash is used not to add shading but to alter the colour of the underlying paint, it is referred to as glazing. It is done with much less of the wash on the brush, so that a thin layer is spread evenly over a controlled area, rather than pooling in the recesses.

One purpose of a glaze is to intensify the cotour of an object. Acrylic paints are fairly well suited to this because of their ability to be translucent Artists' links can also be used to cramatically intensify the appearance of colours, Because drab minitary colours predominate on World War III and World War III models, the opportunities to paint intense colours tend to be fairly rate however. But when you do get a chance to paint a bright colour - e.g. Soviet flags, sir recognition panels, certain tank markings - one or two thin glazes of an appropriate bright colour can ready add to the model's impact on the table.

Another purpose of glazes is to smooth out the effect of shading. If you find that your highlights and shadows are too intense, a thin glaze of the main colour is a great way to subtly blend them together

A glaze of Skin Shade is very useful for aciding richness to brown objects like rifles and teather. And the other shades can also be used as glazes, to subtly vary the colour of selected pares of models.



#### DRYBRUSHING

Drybtushing is a quick and simple technique for selectively adding paint only to prominent parts of a model. It is done by wiping most of the paint off the brush, then dragging the brush back and forth over the surface of the model. Pigment from the paint is deposited on edges and raised parts of textured areas, leaving recesses untouched.

As the name of the technique suggests, the brush should be very dry before you start. If you have recently washed the brush, dry it thoroughly with a rag or paper towe, to remove any water from between the bristles before you dip it in the parat. You generally shouldn't thin paint for drybrushing. The thicker and stickler' the paint, the easier it is to transfer colour on to the manature in a controlled way. Vallejo paint has a fairly stiff consistency straight from the bottle, which will work well for drybrushing without thinning.

Drybrushing is tough on brushes! The study paint and forceful motion create harsh fraction which will quickly bend and weaken the fine, soft bristles of detail brushes. The Drybrush, with its tough bristles, is purpose designed to withstand this fraction, making it ideal for most general drybr ishing tasks.



For smaller areas, you can use an old, worm-out Medium Brosh diat no

For small er areas, you can use an old, worn-out Medium Brosh that no longer has a fine enough point to be useful for detail painting. But try not to use brand new Medium or Fine brushes for drybrushing, unless you want them to be dedicated drybrushing brushes, not really usable for poything else.

As with many techniques it is easy to learn the basics of drybrushing, but it takes a lot of practice to master the possibilities. A range of variation is possible, from a light' drybrush, where almost all paint

Is wiped off the brush and only a very fine, dutry coarting of pain is transferred, to a heavy drybrush, almost like normal painting, where most of the paint is left on the brush and is liberally slathered on to a large proportion of the surface

With experience, you will learn to adjust the amount of paint and the movement of the brush depending on the effect you want to produce.









Some examples of the range of effects possible with drybrishing, here all show brack point drybrished on to a textured white surface

Suppling gives a similar but more controlled effect, and works just as well on smooth surfaces.

#### STIPPLING

A variation of drybrushing, suppling uses essentially the same principle but with a more controlled, deliberate application. Again, some of the paint is wiped off the bristles of the brush more or less depending on the effect you are trying to achieve.

instead of dragging the brish laterally over the model, stippling involves dabbing the paint on to the surface using a downward jabbing

motion. Stippling can create areas of colour with softly feathered edges - good for camouflage patterns, or it can give a motified, uneven coating of colour ideal for certain weathering effects.

The Drybrush will work well for stappling fairly large areas. If you trim the brastles of an old Medium Brush to a shorter length, it will make a perfect stappling brush for smaller areas

## PUTTING IT INTO PRACTICE

Contrary to the theme of this book, we can't actually tell you how to paint. We can describe techniques and suggest the right colours, but it's up to you to put it all together in a way that is right for you

Mostly we will show how to paint hems individually. Your job is to combine the different steps into a coherent workflow, adapting them as you choose. If you need to wash several parts of the model with the same cotour shade, for example, you can save time by doing them all together.

Here's an example of how you might combine techniques from throughout this book to paint a German grenadier from mart to finish

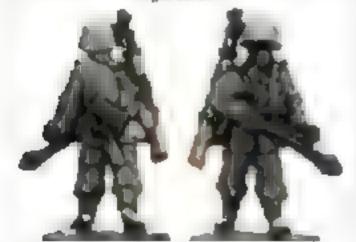


BASECOAT uniform German Fieldgrey, belines copes and Zeitbahn German Camo Beige, gas mark consises German Camo Dark Green



WASH the figure liberally with Black Wash to create studing and definition.





BASECOAT the canseen, boots, rifle stock and entrenching tool bundle that Brown.

FACE & HANDS Pages 24



USE BEIGE BROWN to basecout the face and hands, and to apply a highlight to the boots

COLOURING WASH Pages 24



WASH the face and hands, rifle stock, boots and entrenching tool handle with Septa Wash

FINISH THE FACE Page 24



FINISH the face using the Advanced Facet gurde home painters like to paint skin first and work outwards to avoid gening paint on other isens.

UNIFORM HIGHLIGHT



HIGHLIGHT uniform with a inte of German Fieldgrey and Yeone (ire):

SPLINTER CAMOUFLAGE



PAINT the belinet cover and Zeltbahn tent quarter in the "spiniter" countiflage pattern

GUN METAL Page 25



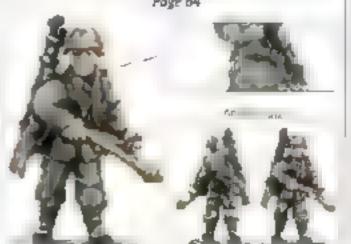
SPARINGLY paint the barrel and other metal parts of the rifle Oxty Steel.

PANZERFAUST



PAINT the Panzerfault Dark Yellow, then wash with Septa Wash in a similar way to German armour

#### WAFFENFARBE Page 64



PAINT the Waffenfarbe shoulder-board piping Whise, the arm-of-service colour for Infantry

## BASING

One of the clicnes you often hear about painting a great looking army is 'bases and faces'. Good faces naturally draw the eye, and can lift the effect of the whole tirure. But bases are the lattest, art of our infantive and gun teams, and can turn them into miniature dioramas. With some thought, research and a little to generic on a well-planned basing scheme can add extra realism and derest to your arms.

#### **BASING MATERIALS**



As well as the commercial basing products, there are low of things around your house and yard that also make perfect basing materials.

Some of these are

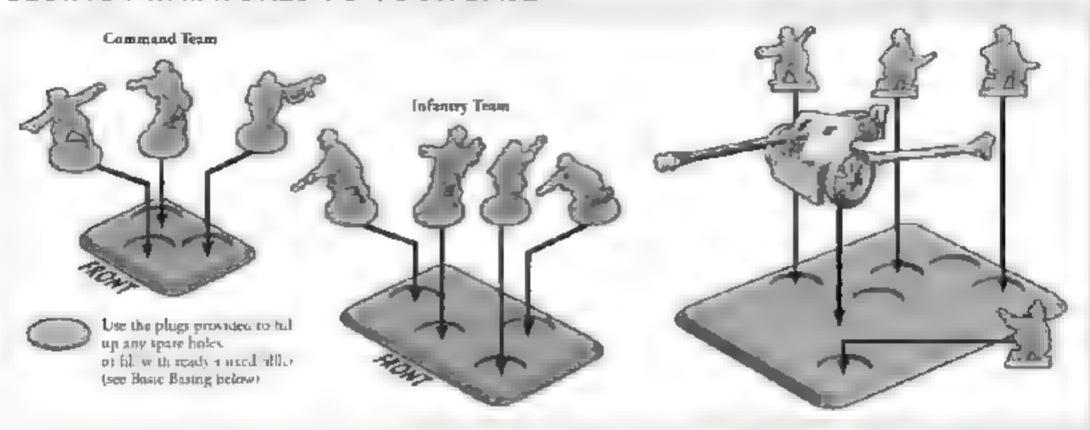
- Brush bristles for tal grasses and radio actuals
- Dried text leaves from the por for dead leaves, or painted green for live ones.
- Various ingredients from the spice rack for ground cover and decaying foliage
- Small pebbles or rocks for rocks and boulders.
- Clean lotty litter for rocks and stones.
- Small twigs and sticks for fallen branches and tree stumps.
- Lichen off trees for small bushes
- Rolled-up ressue
   paper soaked in
   PVA white glue for
   terminists

- Match sticks for sawn tumber
- Finely corrugated cardboard for corrugated ston

As you can see, the possibilities are himited only by your imagination and ingeniary!



#### GLUING MINIATURES TO YOUR BASE



BASES WITH MOLES: Infantry and guns are formed into reams of 2 to 5 men, and live or die as a team. Base command reams on small bases, infantry teams on medium bases, and gun teams on large bases, Each box or bisser comes with the right number of bases to make

the unit. Simply setect a base with the same number of holes as figures in the team you are assembling and slot the miniatures in

All of the m-matures in the plastic range, as well as the newest releases, fit perfectly into bases with holey

Some older ranges may require some filing to make them fit

If there are entra hoses, or you don't wa'tt' o fill every hole, simply use a prag or fill it with ready mixed filler in the next itep-

#### **BASIC BASING**

after is a simple method for basing your miniatures that gives a good result in a relatively short time. Painting bases doesn't require a good brush. Here we've used oid, worn-out brushes that are no longer any good for painting mintal ires



READY-MIXED FILLER: Apply a thin cour of pluster BASECOAT Paint your har comme Herr we have filter to the base to give it a bit of texture feel - wied serman Carno Medium Brown. The paint pree to speciale some ger or sand notes or have for extra texture before the filler dries.



may wan into the filter resulting in a pateny work so you may need to pains two coats.



DRYBRUSH: Once you nave a good basecoat drybrach the base with a agrier contrasting colour Here we have men lengt Sand



DETAILS: Parat any extra actual you've added to your base Here were drybrushed the rock London Circy. Again we are using an old worn-out brush



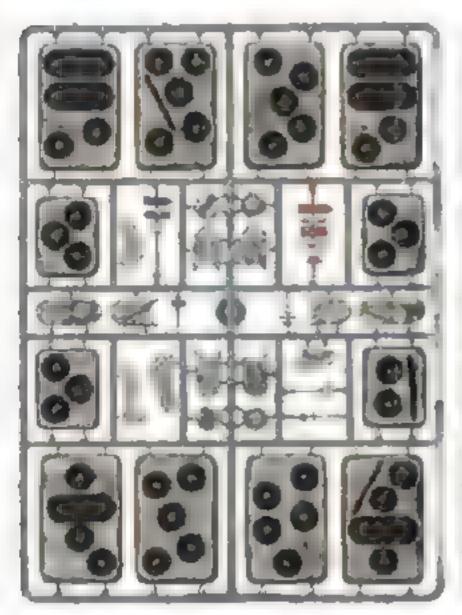
FLOCK. Paint some soutesed-down PVA whose glue on to the base, leaving some gaps for the earth to show through and sprinkle on your choice of Statte Grass.

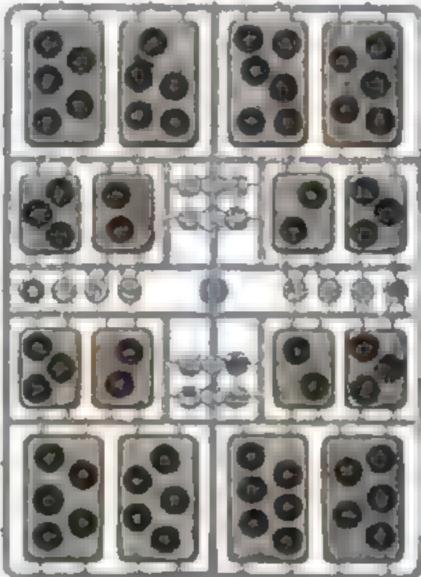


### PLASTIC THEMED BASES

As war raged acress the works infantry against the astromethode artis of africans, the runs of Steangerd. These scent bases moved on suck and simple way to recreate these bases of the outside of property of the details and the Designed a becompatible with a catalogue guarantee and assert a second of stopping would ge as into fair to accompatible with restaurants ground as a second of such as a second of the restaurants ground as a second of such as a second of the restaurants ground as a second of the restaurants.

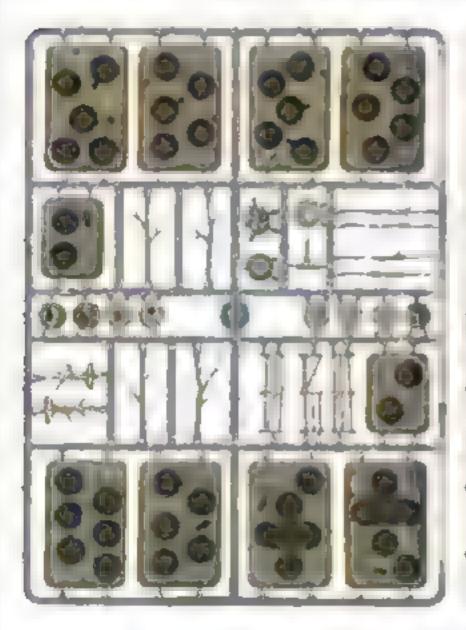
#### **RUBBLE BASES**

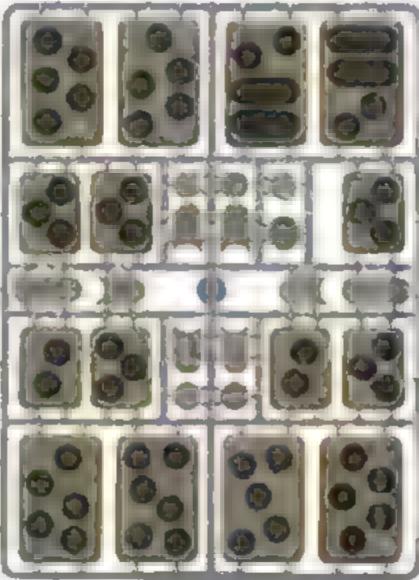




Bardefrom's Rubble Bases are designed to depict a general interners urbain environment. By varying the olours, they can be used to represent any horsteground, from Statingrad in the East to Carolin in the Kest.

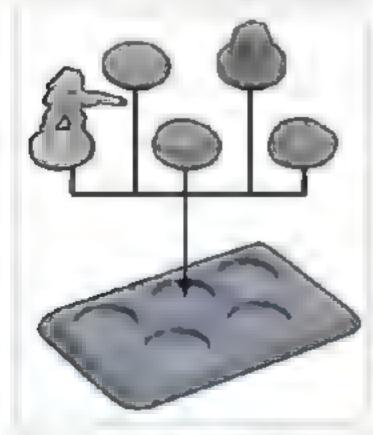
#### **RURAL BASES**



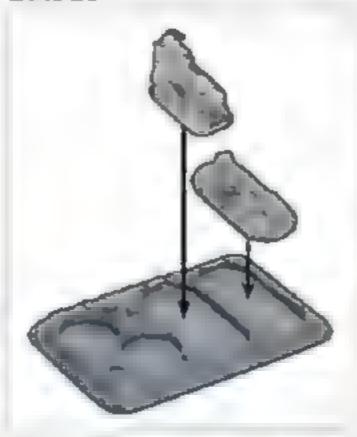


The Rural have set as equally variable for countrycide lunder invalues on Funge with prenty of fences, trees dead ings and on its

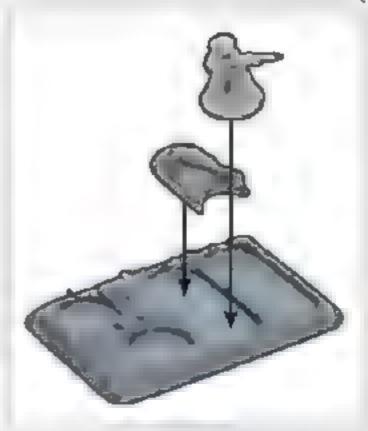
#### USING PLASTIC THEMED BASES



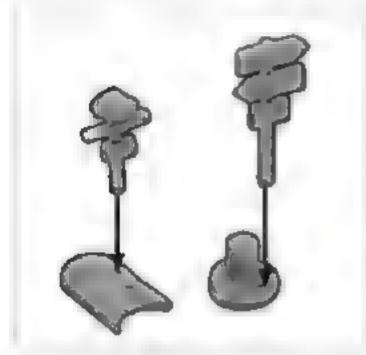
ROUND HOLES. The last pour ple of the laster a street the round holes can be fixed by eather a saldier or a round plug



LONG HOLES: I one better are de igned to accommodate oddly shaped figure. I he HMG teams, or they can be filled with a long plug.



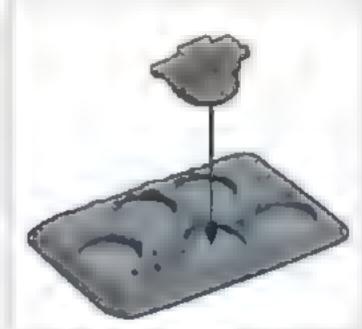
LONG HOLE CONVERTER: For wast washing HMG team, or prone figures, plugs are included to convert long spaces to round holes.



PLUG EXTRAS: Some of the pings come with holes to place one of the atomerous agriports to grave markers included.



BRICK WALLS: Wall sections for into the long slots. There are torce different soupes of wait altowing for plenty of variation.



SPECIFIC PIECES: A few of the pings are intended to fit in specific paners. Of course you can use any plug you like



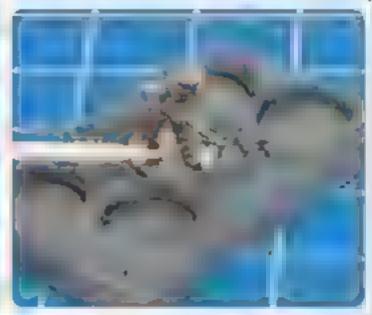
#### FILLING PLASTIC THEMED BASES



Fill the cavity rangely halfway un is super Glue



When you prace a figure into the carity, the excess glue will squeeze out around the edge



For a uniform finish me a toptopuch to carefully sease the glue away from the botes edge and across the figure's base



the gap and blac the edge of the figures monided on base



Before the glaciets con tur me your toestipe k to pu in the basing grat around.

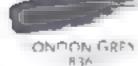
### SUPER GLUE HEALTH AND SAFETY TIP

Cyanoacrylate is an eye irritant, and a lot of people don't realise that this also applies to the fames, which are a vaporized form of the glue itself. You have probably heard warn ngalike this before and might not take them very senously. But this method uses large quantities of glue, so the fumes may be stronger than you are used to. The harsh sting of concentrated fames in your nose and throat is unpleasant, but the real tisk is to the sens tive skin around your eyes. To avoid a potential allergic reaction or dermatitis, try to work in a well ventuated area with a tiex of late it in one window

#### PAINTING COBBLESTONES

COLC UR PALLET







tabble Base set and the



Laige Districts

OLIVE DRAB

BASECOAT Basecout your base Olive Drub. Tim, will give the appearance of dirt and grime between cooblestones.

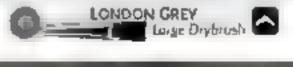


DRYBRUSTE Gree the base a light drybrash unto Sky Grey.

DETAR: Carefully pick out a few random individual stones in

Landon Grey and Sky Grey (and mines of the two) to create

some tealestic variations.





DRYBRUSH: Gave the base a heavy devirush south London Grea.



OTHER DETAILS. Once the coholestones are fanished paint any other details to finish off the base.

#### **PAINTING BRICKS**





LIGHT BROWN

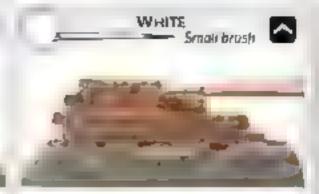
WHITE 951



BASECOAT: Busecout brack areas with Beige Brown



DETAIL. Real bracks often wary in colour Paint individual bricks in varying mixes of Beige Brown and Light Brown to achieve a mostiled look

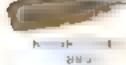


MORTAR: Heavily distate White with about three parts water to one part paint. Do a careful targeted wash with a small brush, altituding the paint to run along the cracks

#### **PAINTING TREES**

#### COLOUR PALLET



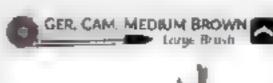






rerval con

Fallow of resource





BASECOAT: Begin with a deep brown colour like German Camouflage Medium Brown



FOLIAGE: If you don't want bare trees you can use them at a skeleton to attach cump foliage such as Summer 3-Colour Clump Foliage Mix (GF\$013), using PVA white glue,



DRYBRUSH: Drybrush with a light neutral benieus such as Kitalia Grey,



DETAIL: Emphasize broken ends or areas of peolest back with Green Ochre



PAINTING FENCES

Typical little printing and analysis frances and any process mental and analysis at the same of t

#### **GROUND COVER**



The final step is to add some ground cover, such as flock or natic grass. Without some sort of greenery, your bases will took very bleak and barren. Paint watered-down PVA white glue wherever you want your ground cover to suck.



Sprinkle or gratly press your relected ground cover on to the wet glue You can use a single colour, or mix and match to get the desired effect. Use a little common sense about where you place your chosen ground cover, it might look a bit odd if you have grass growing out of a rock, or in the middle of a fresh wheel rut

### THEMED BASING - AFRICA

Because basing is such an important part of the 'look' of your force, one way to really impress people is with an interesting or original basing theme. A strong theme is the sort of thing that can see you taking home, best painted, prizes at fournaments. Once you choose a theme, the first thing you need to do is research. As an example, take a simple desert theme. A little research quickly reveals it is not as straightforward as you might think. Below are some stafferent—later, retailors.

The clicke of all desert terrain consisting of uninterrupted relling sand danes is not exactly true. It varies from area to area. The Western Desert, which included I have and I gapt, which chapter chapter cross crossed by steep depressions and walls distinctive tiverbous. Whereas much of southern Turusia is made up of study onal sands hills, but with its own distinctive vegetation.

SANDY DESERT EXAMPLE

ROCKY DESERT EXAMPLE



For the warm, yellow sunds of Tumom, basecout with a 50-50 mix of German Camo Orange Othre and Tan Earth, followed by a heavy drybrush of Green Othre, and a total highlight of Buil



Basecout the rocks and the face of the wadi with Olive Drah, and the sand with English Uniform, Drybrish the sand with Kliaks Grey and Green Ochre, and the rocks and wadt with Iraqi Sand







Sparingly add some tall
dry grass, some GF9 Spring
Lindergrowth and GF9 Straw
static grass. The trick is to add
enough to enhance the base
without taking if over

#### SOME POSSIBLE DESERT COLOUR PALETTES



Two of three successive layers of disbrushing are usually enough to cant neithe colour of most types of terrior. It is a great idea to make several practice bases to make sore visit are happy with the final result before you begin busing your miniatures. This will ensure a consistent look across your whole army.

## SEASONAL BASING

Once you have decided where your force is fighting, it is also important to think about when it's fighting! Small changes in colour and materials can allude not only to different locales, but also to different times of year. Below are some suggested palettes for various seasons, to spark your in agination and creativity.

#### SUMMER



CHUCOLA1 \*# 7/6



GREEN BRITAN



GREEN STATIC GRASS



SUMMER 3 COLOR CLUMP FOLIAGE MIX GF5013



#### AUTUMN



GERMAN CAMO MEDIUM BROWN



JREEN OC RE



WINTER DEA STATIC GRASS GESUO



FLOCK B END



#### WINTER



LONGON CREV

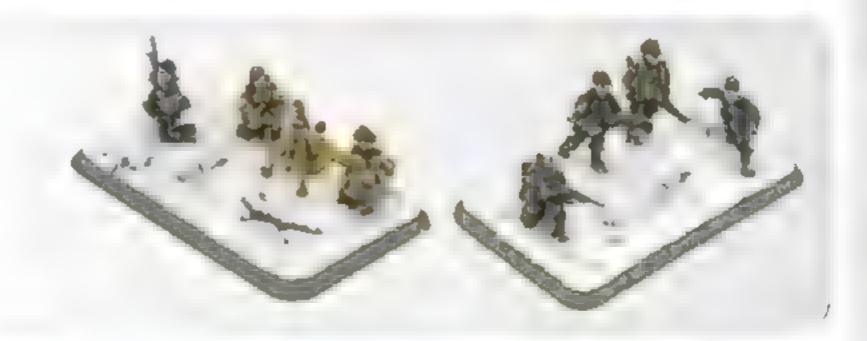


SAY CREA





5 % GES. , 7



#### THAW/EARLY SPRING



ENGLISH UN FORM



900



SNOW GFS027



ARID STATIC GRASS



## COMMON FEATURES

Every army is different, with its own unique uniforms, camouflage schemes and equipment. These will be covered in the national painting guides later in the book. But some things are universal, regardless of nation of theatre and apply equally to World War II and World War III miniatures. Rather than repeating these common items in each national section, we've compiled them here in one place, where you can refer back to them when you need them, whichever force you have chosen to paint

Although there is no 'correct' way to paint anything, we have parrowed at down to a single suggestion for each item. An exception is faces; two methods are presented for you to chose from, depending on how much time you want to spend on your arms.

Again, these are suggestions, so feel free to experiment and devolop your own colour choices and techniques

#### **BASIC FACES**





BASECOAT the face and hands with Flat Fleth, in two thin coats



WASH liberally with Black Wash to create shading and definition



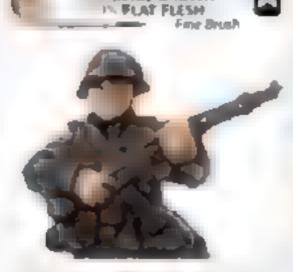
HIGHLIGHT natural desails such as fingers, checks and note with Flat Flesh

#### ADVANCED FACES









HIGHUGHT raced areas with a russ of Beige Brown and Hat Elesh



WASH leberally with Sepsa Wash to create shading and definition, or you wild use Black Wash mitesal

"S" FLAT FLESH



GLAZE the lower hell of the face to create the appearance of fine-o clock



TIDY UP and re-establish the base sulour, leaving chadous in the receives



HIGHLIGHT only the most prominent details, tike fingersips and the tip of the none unsh Flat Flesh

#### INFANTRY WEAPONS







865







Refles and other 'smail arms' are generally made from a combination of wood and 'blued' steel, which is so dark it can appear almost completely black. So you can leave metal parts black if you prefer But a suitably dark metallic colour tends to help weapons stand out better on the rable

If you are unsure which parts of a weapon to paint as metal (right) and which to paint as wood (below) on internet image search for that particular weapon is a quick way to find our



BASECOAT barrels and other metal parts sparengly with German Grey.



**OILY STEEL** 

HIGHUGHT andy the most prominent details with a touch of Oily Steel.



BASECOAT stocks and other wooden areas with Checolate Brown.



WASH unth Berge Brown to add chading and to mimic the vich tones of paraished wood.



HIGHLIGHT upper edges. If you enjoy painting very fine lines, you can even add a suggestion of wood grain.

#### WEBBING AND CANVAS

COLOUR PALETTE'



OLIVE DRAB

Medium Brush

BASECOAT in a dark shadow colour in provide contrast against the van-



BLOCK PAINT the appropriate webbing value, taking extra care to be near with narrow areas like straps



HIGHLIGHT edges and natical areas to a lighter colour. This will provide extra contrast and definition.



BRITISH webbing was coloured with a cleaning paste called Biance. Light green was the stansand colour



GERMAN gear tous carried on a belt and Y-thaped harness made of teather, usually in black



SOVIET webbing was fairly minimal and mostly made from plain causes, which could vary in colour

#### **HELMETS**

#### **COLOUR PALETTE**



Wargarring with 15mm figures, you will spend a lot of time looking down at them from a high angle. So one part of the minimum that you will always notice is the helmet. Therefore like the bases and faces' rule, even it you rush your way through most of the paint job, it is worth getting the helmets right. Although they are often quite plain, functional items, take the time to easily painted and high-lighted.



BASECOAT the helmes carefully, using two thin coats if necessary, to ensure a near, even covernee.



HIGHLIGHT with a tighter colour, by lightly deplerations and or carefully painting any raised edges.



#### CANTEENS (BRITISH AND GERMAN)

#### COLOUR PALETTE



GER. CAM MEDIUM BROWN

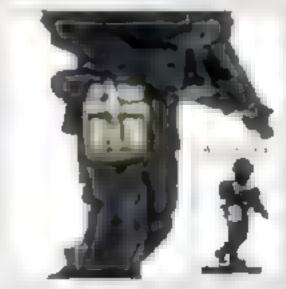


BASECOAT with German Camouflage Medium Brown

#### US FIELD DRAB



HIGHLIGHT most of the canteen with US Field Druh, leaving shuded edge.



PAINT any securing straps the same as other webbing equipment

#### **BROWN LEATHER**

#### COLOUR PALETTE



BEIGE BROWN

CHOCOLATE BROWN
Medium Brush



BASECOAT with Chocounte Brown You can substitute German Camb Biack
Brown for a darker finish,

## FLAT BROWN Fine Brush



OPTIONALLY apply a fine highlight on rathed areas with Flat Brown to give greater definition.

#### BEIGE BROWN Medium Brush



HIGHLIGHT with Beige Brown for a warmer, rich natural leather

#### **TANK TRACKS**







BEIGE BROWN

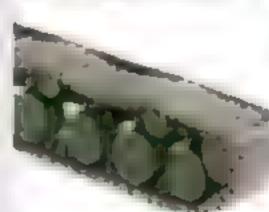


BASECOAT the macks with Berge Brown to represent dirt on and between the track link



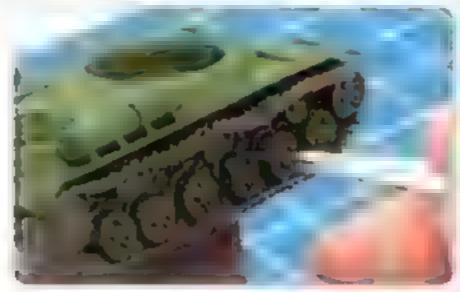
BLACK WASH

WASH we had 2 coats of Black Wash.

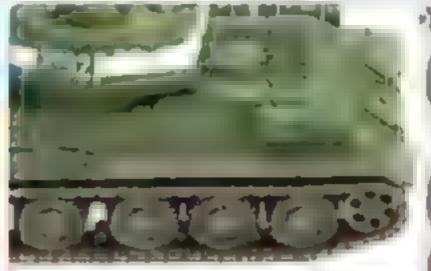


OHY STEEL

DAYBRUSH with Oily Steet



Some heavy tanks have soled metal road wheels. You may find Il carrer to parent the estimate along with the rest of the trans Consider adding a little chipping with Othy Steel.



It is often asser to paint timely with rubber road wheels aparately across an mit has a the tree bank rather than carefully picking them out individually

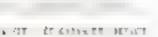
#### TYRES & PAINTING BLACK

COLO, R PAINTY





0.4



If you want to mik your own greve to highlight black, a useful up in to ignore what you learned at school. about black and white making grey Adding white tends to make black look chalky and washed out, Instead try adding small amounts of a warm presented which as Khake some se kishcolour ske Dark Sand. Grev tends to darken slightly as it dries. This can make it difficult to judge exactly how the finished mode will in it, us be patien, and dut crush-





BASECOAT are to the trace Note that the tracks on 1's next tracks are a em-Danosu solid rubber strip.





HIGHLIGHT tyres usual a trees and the rubber truck with Black tirry



DARK SAMD

A TARGETED WASH with Dark Soud in the trend of tree and tracks can semusise a basid-up of dust everywhere that does not contact the road surface

#### RUST



SADDLE BROWN

BASECOAT the extinted the the Naditor derena.



WASH wer Alach Buch Jones substitute matered-down Black of percentery.



STIPPLE A mer of ruddle brown and Light brown, creating a rough, motsied covering of colour

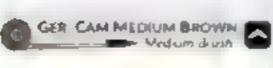


STIPPLE a little Light brown carefully un to raised edges and upper surfaces.



TOOLS

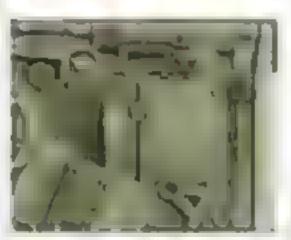






BASECOAT worken handles and took with treaming amonthage Mentain Beau H

OILY STEEL



SEPIA WASH

WASH IN THE LISTER SUPPLE WHITE TO reate disasting and interes to the breasin 10.150



KHAKI

HIGHLIGHT with him lines of Amike to reate be appearance of engged well and too!

SEPIA WASH



BASECOAT metal tool and tool bead. terith Oaly Steel.



MIGHLIGHT with a less county touches of a miss of Only Steel and White to mereuse definition



GLAZE un in Apria Warn to give the mals a med, grossy appearance

#### **HEADLIGHTS**

#### COLOUR PALETTE



WAY TE





401 1

Medium Brish

BASECOAT the Light with Buck Gres

PAINT a mail dos of Winte near the

inp in annulace reflected aght



Fine Brush



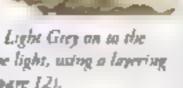


SOFTLY BLEND Light Grey on to the lower half of the light, using a layering





technique (see page 12).







A MUCH EASIER METHOD is to simply paint the tight Black You may shoose to add a coat of gloss parnith.



OFF WHITE

Fine Brush

BLEND a small amount of Off White over the Light Grey, only in the lower third of the tight.



Fina Brush



OR USE WHITE leaving a thin Black vacuus. Aga a a coat of gives varnish will help the light look suitably glassy.

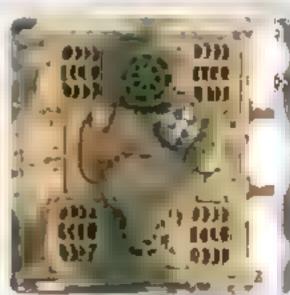
#### COMMON VEHICLE STOWAGE



Canves tarps come in aid mapes and vinurs Chanse an infant , waiture colour and follow the painting guide



The custom sculpted Leltbahn on the back of this Pan her wink was pairted in Splanter comoullage (see page 66)



Another custom Le thatin this time paned a book Summer and Astuma Oak teat amonflage (see page 68,



German jerry cons' conta uing water were painted with a white cross Cans unthout the cross are for fuel.



Paint tow caples like any other metal, applying a wash of Bradiey Shade to represent the protective grease contrag.



Later on the war US tank, displayed large panel of pink or white fabric as air recognition markets

#### **DECALS**







PART a coat of glow outrants in places you much to place a decal



SOAR the decal in mater. It should only take about 30 seconds to free strelf from the decal three.



PRIME the elas surface with some decay refrener and fine the de- al new to the meriace of the sank and use the best is to tense the de- al into place. Deval refrener makes the de- as placely in the gent corross many year the de- is



REMOVE any excess more ture with a dry brush. Once the docal is dry apply must docal softener if the docal ites over a textwind surface such a distinctive. Lists with let you use a suff breigh to conform the decal to the deeper receives



LIGHTLY DRYBRUSH the base tank colour over the decay to tone down the intensity of the colour and help it appear more like it has ready been painted on to the native of the commu-



WASH the dotal with some Black Wash or watered down. Black paint if it is over a textured great. This is especially effective on engine docks or anywhere the marking would get particularly direct.

#### **WEATHER EFFECTS**

to to a menagger at vearbeding comprises the fiveather and

whereover have veloched

wite clearace in the resident



LIGHT DUST: A very light dephensh of langi Sand over the whole nebtele gives it a dusty appearance. It is also a great way to give a final highlight, emphasising edges and detail.



HEAVY DUST: A heavier devbrush (or light airbrash) of haqi Sand around the lower parties of large tanks gives the impression of a very dey, dusty enumerated



THICK MOD. Mixing brown paint with pre-mixed planter filler lints a thicky paste is a good way to create constituting thick mad. Once is it dry, drybrath is south a lighter shade.



SHOW parat wheels, trucks or the somer surfaces of valueles with a little watered-down PVA white glue, then sprinkle on mow flock. Add gloss variash to make it look wet.



MUD SPLASHES: Paint directional streaks of Green Brown of Iraqt Sand above and behind wheels or tracks to those that the vehicle has been driving through deep. Isquid mud.



MUD SPLATTERS: I'm very dirty vehicles you can use an oul toothbrush to spatter paint on to the model by bending back the brestles with your thumb and letting them flick back

#### **VARNISHING**

Te fe user violat version



BEFORE paralishing, this tank has an unappealing reflective sheen. Note how the gloss finish also makes dark colours appear slightly darker



AFTER a coast of matt varnish, the tank has a flat, thine-free hunds the decais appear part of the surface and the Sherman Drub hase colour has lost that exagginated darkness.



Flames Of War allows you to re-fight the key battles of the Second World War, Can you turn the tide of the war in your favour? Can you lead Rommel's Afrika Korps to victory at El Alamein? Can your green American soldiers defeat Rommel's veterans at Kasserine Pass? With Flames Of War you find out.

Flames Of War combines the joys of painting and modelling your own miniature army with the challenge of facing off against your opponent across a gaming table in a social setting, and you'll get to recreate history as it might have been!



## FLAMES OF WAR MINIATURES

Collecting a Flames Of War army may seem daunting before you begin but you will quickly discover how much fur it is. In fact, many find that they cannot stop at just one army of force and usually end up with two, three or more forces at various stages of completion. Some people require patience and motivation to see an army through to the end. And many painters find themselves easily distracted by new miniatures for completely different forces all the time. But that is half the fun!

#### PLAN YOUR FORCE

There are two ways to go about collecting a Flames Of War army by looking through Intelligence Briefing books such as Ghost Panzers Fighting First of D-Day. Germans and finding a list that you think is cook or by simply collecting the models that you like and then finding an Intelligence Briefing they fit into

The most important thing is to have a clear goal to help inspire you and give you the motivation to faish your project

There are a lot of things to consider when thinking about starting a Flames Of War army. Check out our website, www.h.amesOfWar.com. for more information on the types of forces you can choose from



#### **PLATOONS**

In Lucinei Of War, the basic unit is a platoon. Each platoon diagram indicates the required teams you must have to make that unit





Flames Of War box sets are designed around unit entries in Flames Of War books, and come with all the options needed to make a platoon.

Shown here is an example of a US Armored Rifle Platoon unit card and how it looks in miniature form when made from the corresponding box, UBX?5

# NOT SURE WHERE TO START? TRY HIT THE BEACH

ELt The Beach! Contains everything you need to start collecting and playing Funto Of War

meading

A German Grenadier Kompanie supported as Panzer IV tanks and Pakit anti-tank guns

An American Sherman Tank Company of Them & Tomm Sherman tanks supported by US Paratroopers

A 120 page full colour ralebook dice, a V1 flying bomb terrain. feature, and Unit Cards

Painting and playing games with Ha the Beach'n injutures should help you decide where to go next in the Farmer Of Wer hobby, and give you a good have to start from







"All right, they're on our left, they're on our right, they're in front of us, they're behind us...
they can't get away this time."
- Lieutenant General Lewis B.'Chesty' Puller

By the time the American forces landed in Italy they were a well-trained army of volunteers, supremely confident in the rapilities and supported by a manufacturing powerhouse. With an impressive variety of support options in Flames Of War, the American army is very flexible







TANK TRACKS

SHERMAN TRACKS

TOOLS Page 1 WEATHER EFFECTS

PAINTING BLACK

# **US ARMOUR**

#### COLOUR PALETTE











BASECOAT with Olive Drab. Two or three time coat are preferable to one thich coat. Atternatively you can use a Olive Drab spray can for your undertoat



TIDY UP the wath with Olive Drab (see page 14) using a combination of drybrithing and layering, while leaving the recesses dark



WASH the vehicle with Sepin Wash. Try to achieve an even two-rage over the whole vehicle, letting the wash poul in the receises without building up on flat surfaces.



DRYBRUSH the vehicle softh a most of Olive Drah and Green Brown, concentrating on edges raised details and upper surfaces, to add highlights



# WEATHERING OLIVE DRAB





DRYBRUSH Ger Came. Black Brown onto your subsele using the edge of your drybrush, starting at the top of the mill. This helps represent paint meaning down to the mean.



FOR DEEP RECESSES such as the line around hatches, an extre targeted Septe Wash will insensify the shading You can also use illes & Weith, if you have it



DRYBRUSH Trays hand on to mus solitale this time starting at the battom of the built to represent have treated dust



PAINT Separa beach from the field cap for feel status. After applying a west warmeds we page \$1. you can paint over the top of the starn with gloss parmish to make at look fresh.

# SHERMAN TRACKS





BASECOAT the tracks with Characte Brown Attenute of some Beige Brown tike in the basic Tank Inches guide on page 29. Cambilly avoid the black enther blacks.



ORYBRUSH the edge of the track and the metal ancient (on tracks, makeding these, which have them) with Oils Steel from our excent up any minutes up with Black



WASH the schoole reach invested up the rubber black some Separ Wash.



PAINT he armous mount seasons the subtree road wheels black. Give the edge of the track, the chevrons, and the drive sprocket a light drybrish of Oily Stees



# US ARMORED DIVISION ORGANISATION

The or treat entities the reseason I'vernoted divisions way betrifled money bear to the assets in the division were permanent as hered on a fixed to mend and the second s expect to a ross at language party in equal sport between the three Combas Comman.



he me may sun bols dist the US army used a World War I were the symbols hat were eventually allow a by ad NATO coaperic.

















































# THE US UNIT CODE SYSTEM

During the course of the war American factories produced over \$8.0 % tanks, cf 000 halo reactor at 1 civer 2.5 (0.000). Mr. skinned transports vehicles It went from a regular army of 25 J,000 men e. opt 15 containing ever 2 million men Witt so many ech aics in the Leld they needed a top per vet ade identificar in

and have not the tell the by were orde

the nest con a San Larley provided a simple case of ad a rethat identified every schooler by len-D 0 1 1 1 1 1

He a company to the term the art to prepare und to personal carbonitists



#### FORMATION

The first part is the formation. control his is usually a number Rived action orange of bantalien with a number and e of Comain n Examples 4.1 Third Arrey A. Armoned Dis-

82A B = 8.7m A. hort e. 

#### UNIT

The second part shows the unit l l code, usually a regiment or a sustaints in a smill Example

In a Americal segment 1 1 ) r Er i Reinen SAID SAIL BROOM

#### COMPANY

The third group is used for the company with in the battal onthat the vehicle belongs to. This is SHITS SEC. 1

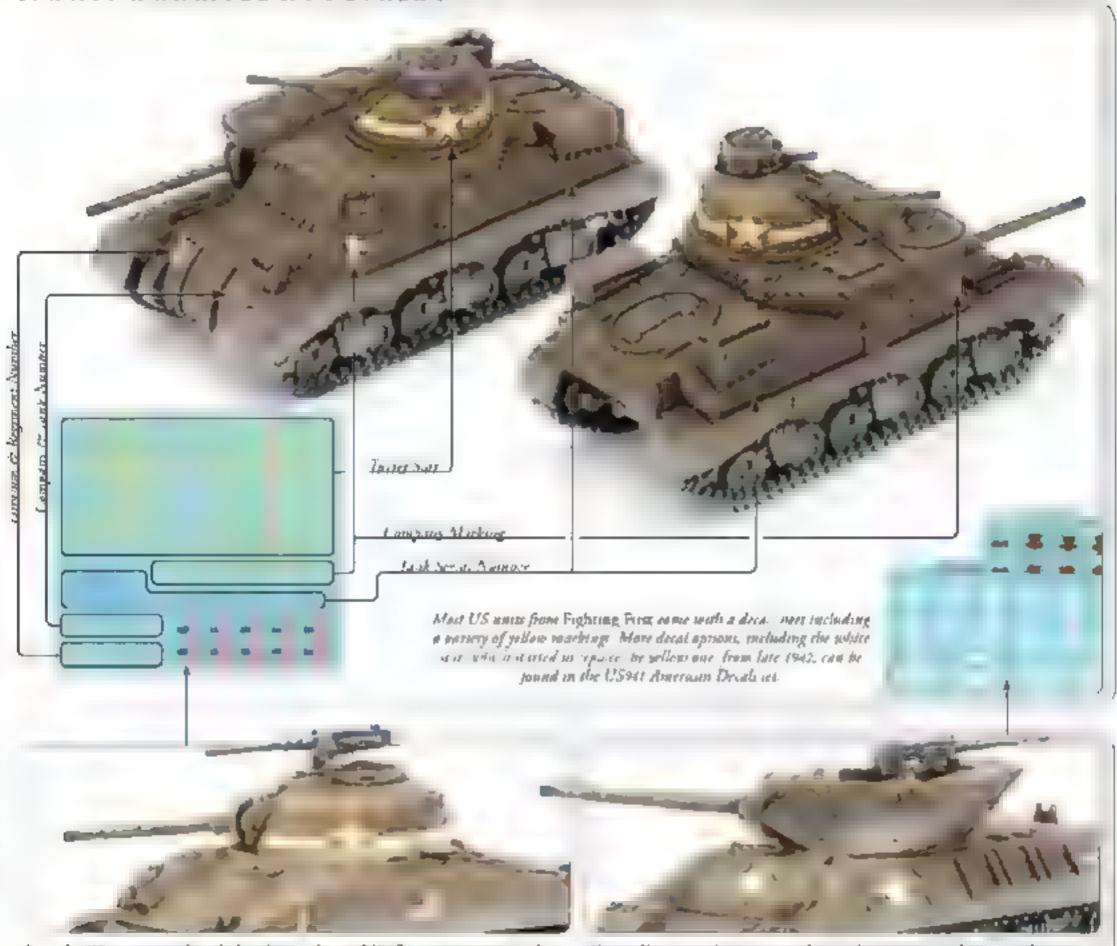
Headeral 1 10 41 C 13 In Orthorn

#### TANK NUMBER

The I rul group designates rle vehicle number with naths COMPANY







For the Operation Torch landings, large US flags were painted on the front or sides of half-tracks and some tanks, in hopes that pro-American French defenders would decide not to resist. This proved to be wishful thinking, but flags remained on many vehicles throughout the Iunisian campaign

The yellow markings were later changed to white, as the yellow was often difficult to see under a covering of dry African dust. At long distances, the star could sometimes be mistaken for a German cross emblem, especially by friendly aircraft. So from the second half of .943 a crose was added, either solid or broken into five segments.

The two armored regiments of Ukt Ironsides used a system of geometric symbols to distinguish each company

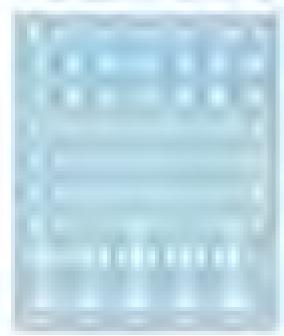


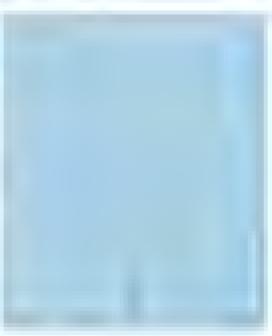


# LATE WAR MARKINGS

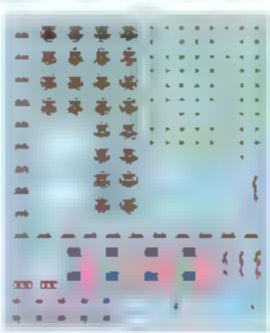
# A GUIDE TO US DECALS

The US for A merican Divide Sheet was specified adsociated as a second control of the control of









# **US STARS**

The first smeet is the bioster gives you. If the dislicient types of Albed wars to the its found on US of ides.

there was no standard way of applying these stats, so feel free to have a second in practices in terms of where the stars go but if you're look in the stars

A some would remain a base six stars, name and each half sides of I from and engine deck. These varied in six k. Some would have base star with a constant while it erabalisms a with a upon mand them. A lane star with a unit was often on the engine deck for air real gration.

Note show where plants over the stars cand other markings. Liter to they divide province casy targets for the Germany so leaving some off evan easy way to additionate to your force.



M10 3-inch Tank-decrever

TANK DESTROYERS: Tank Destroyers usually have the stars in broken circles. Some M18's had a large star or the form armor





M4 Sherman (75nm)



M7 Priest (195 mint

ARMORED ARTILLERY: A similar treatment to the tank destroyer was given to armoured articlery, but they commonly had a large star in a circle on the side armous where there was room



M8 (37mm) armoured car

UTILITY/TRANSPORT VEHICLES: There somet mes wasn't foom for the regulation-size stars, so smaller stars were often used



# BRIDGE WEIGHTS AND UNIT BUMPER CODES

Visited were the market with their seight in to is in the front of the vet whe. This was the within black monores in a vellow circle has a risk of was to easily know the weight of a vehicle for crowing his q. We went provided a range of numbers to cover most vehicles in your force.

dorber light as kishover around the mid to high teems. Trucks and the risk vehicles use the lowest numbers while MAA3E2 lumbos and M2 arshings are the heaviest tanks in the US arms.

York research will help you brus the appropriate weight for each type of septic

Also on the front of the vehicle were markings that detailed its number in the company, and what division and battalion it came from, as explained in the previous page. On this sheet we've used 4th Armored Division, 3th Tank Battalian, and C Company vehicles numbered 10 to 2th However the details are small enough on the vehicles that it want be visibly different if you are mode it ig a different unit



M4A3 Sherman (76mm)



M 18 Hellest Tank-decrever



M20 (50 cal)

# NICKNAMES AND SERIAL NUMBERS



M4A3 Sheeman (75mm)

M3 half-truck

Seria in inhers and mesha nest adorneo most 1.5 value in a life in the sheet are singue and are fine to use in a life in a life in a life they to with some larger given in ight he able to bold much supe of tank they a much invested on they commonly appeared near the centre of the aid and a life enters.

The second numbers starting with 3 are for tanks. Those starting with 4 are for other tracked vehicles, such as half-tracks. These were usually located at the rear sides of the vehicle

# **VEHICLE SPECS**



M4Al Sherman (76mm)

Ofte even also had a small let of technical information near the back of its oil. This extend the weight and dimensions of the venicle ground clearances etc.

# **US FLAGS**



M3 half truck

When the Albes landed in North Africa during Operation Torch to 91. On in an crew's displayed large US 52, on the front and states of their vehicles. It was hoped that the French detendent (thou, or or pro American) would spot the flags and decide in it to offer resistance. This proved to be wishful thinking, as the French did resist most and new YU adding the flags to your vehicles is a way to add some our and proved in the source.



# **OTHER SYMBOLS**



ARMOURED DIVISION SYMBOLS Since I and the he



M18 Hellia

TANK DESTROYERS: Some M16 cienes in Italy painted a large verif

# HISTORICAL EXAMPLES



MARIES howbe some COBRA KINGS



M4 Sherman ("Sunn) CHANNEL RIUES



M4A3E8 Easy Eight ("6mm) 'FLATFOOT FLOOGIE'



M443 Sherman ("6mm) PERPLE HEART KIDS

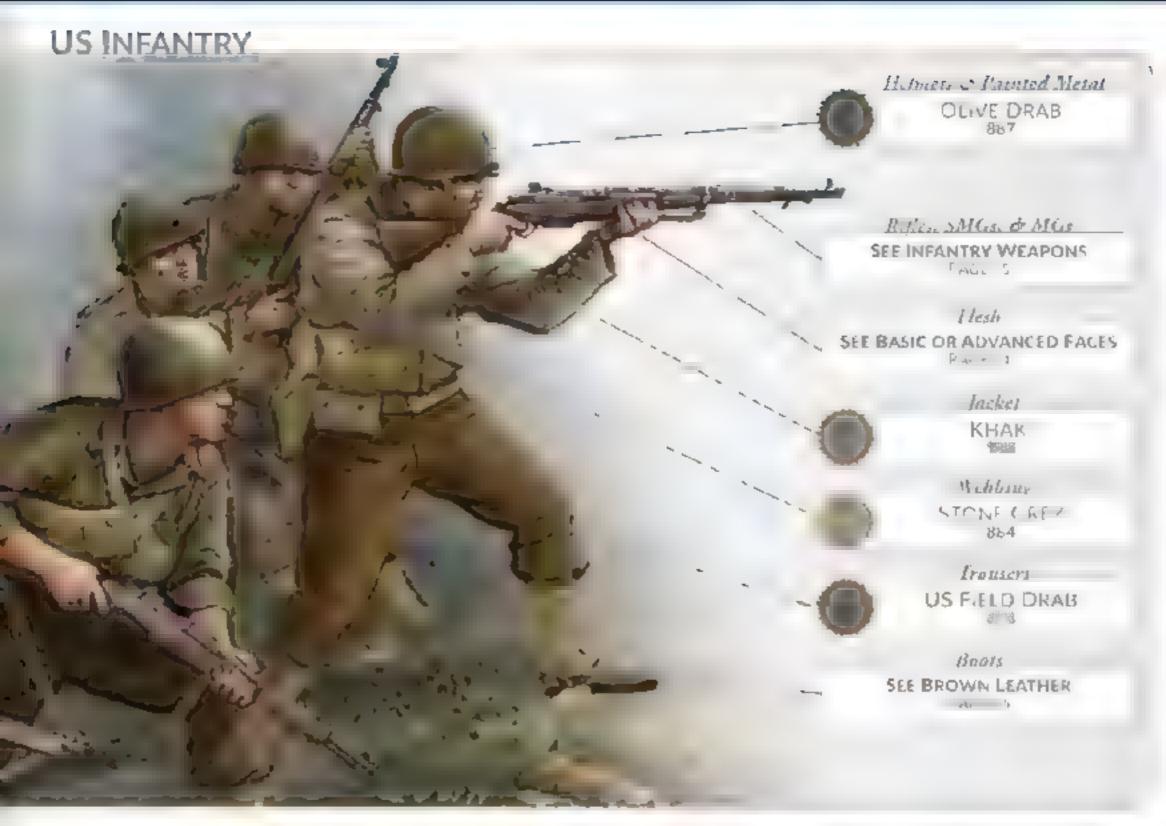


M56 (90mm) GMC PORK CHOP

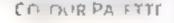


M12 (15Smm) ADOLPH'S ASSASSA





# **US UNIFORMS**













KHARL Large Brush

BASECOAT the jacket with Knakl, using two thin coats of necessary to provide un even coverage



TIDY UP the Jacket with Khaki, leaving darker shadows in the receives.



BASECOAT the mouses with US Field Doeb. For latter in the war you can paint the innores US Dark Green instead.



HIGHLIGHT the trousers with fairly broad strokes of US Field Dreb, using the layering technique (see page 14).



WASH the figure liberally with Sepra Wash to add shading in the recenes and fulds of the cloth

STONE GREY



HIGHLIGHT mused details and edges of the Jacket with Stone Grey.



# **CAMOUFLAGE UNIFORMS**

During the Normandy invasion in June 1944, a camoutlage suit was usued to elements of the 2" and 30" Infantry Divisions, the 1" Engineer Battation, as well as the 2" Armored Division's 41" Armored Infantry Regiment

the uniform was quickly discontinued in early July after Gls were mistaken for camoullaged Germans and fired upon by their own troops, sometimes with tragaterials. However, there is photographic evidence of the uniform being worn well

into the later stages of summer.

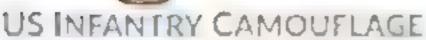
Despite only having a short service life, painting an infantity unit in this distinctive camouflage will add some interesting flavour to your force. Like all infantry camo schemes you can get away with simplifying when

painting it at 1:100 scale











BASECOAT the uniform with Allahr using two time coats of necessary to provide an even coverage



WASH with flack the tree and lord of the election



the wiver of echangue we page 11



PAINT small spots of Yelion: Green, You care selections where light green paints of necessary.



PANT small spots of Hat Earth, You can reinstitute Beige Brown if you don't have Flat Earth



# WINTER UNIFORMS

The extra warmth of US winter service clothing mostly came from adding a festional inner iners which did not alter the outward appearance much

The obsesses exception is the way in a saw and the black overshoes

Winter near was irrued to airborne troops fighting in the winter of 1964-45 sails they mawn figures with airborne bearing to cleare a whiter at beene at its



# **OVERCOATS**













BASECOAT the a we out with Cormian Camo Medrum Brown.



BASECOAT the Livin of equipment with Otree Dreft.



OLIVE DRAB

Medam Bouh



SEPIA WASH

WASH the require liberally with repair Wash to add shading in the receive and tolds of the cloth



PAINT a min of comman Camo Med um from a rate ( & b rate () oak leaving darker hadous in the receipt



HIGHLIGHT water broad strokes of 1 Field Draft, nung the save ng cech night we page 14



FINISH the webb ng equipment with Khala and Stane Grey (see Welding) Equipment, page 2"



# **AIRBORNE TROOPS**

The first combat uniform issued to US airborne troopers, the M1942, was purpose designed for airborne troops by Major Will am Yarborough, who was also the designer of the US Airborne parachute wings). The design included features such as pockets cut on the diagonal to allow easy access while wearing webbing equipment and large expanding, bellows style leg pockets that became a trademark of the wartime US airborne trooper. The M1942 uniform was used only by paratroopers and wasn't issued orgineer tenops.

The Paratroopers taking part in combat jumps in North Africa, Sicily, Italy and Normandy were this uniform and even one battalion that jumped during "Market Garden" in Ho land was still wearing this uniform. This go form was made from light cotton that was a pale greenish-tan colour. Due to the vagaries of the manufacturing process the shade could vary greatly

Being nuide from lightweight cotton, the knees and chows rended to west out quick y so many an airborne trooper bribed his unit parachute rigger to sew patches over the elhows and knees. The material commonly used for this was cotton duck from old parachute packs and was olive drab in countr (Army Green).

After the US airborne forces were withdrawn from Normandy they were retired and brought back up to strength reads for the next mission. This included the widespread ssue of the brand new M1943 olive drab uniform to the veterans of the 82nd and 101st divisions. This wain't just a paratroop uniform but the beginning of the US Army's pushto standardize the combat an form. All airbotne units received the M1943 uniform, even the gader troops, but the paratroopers were quick to modify theirs or adding bigger leg pockets

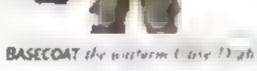
The new airborne divisions arraying fresh from the States already wore this new un form and it was the uniform seen dropping from the sky, or climbing out of a glider, during Market Garden in Holland and Varsity over the Rhine and into Germany proper



# NORMANDY AIRBORNE UNIFORMS









WASH IN A I H IN that & Wast TO Red depth.



HIGHLIGHT cities and ration last of fature note Office Deale

# POST-NORMANDY AIRBORNE UNIFORMS





BASECOAT the uniform L'S Dark Cornen.



WASH liberally with Board Week to add HIGHUGHT with US Durch Green dente







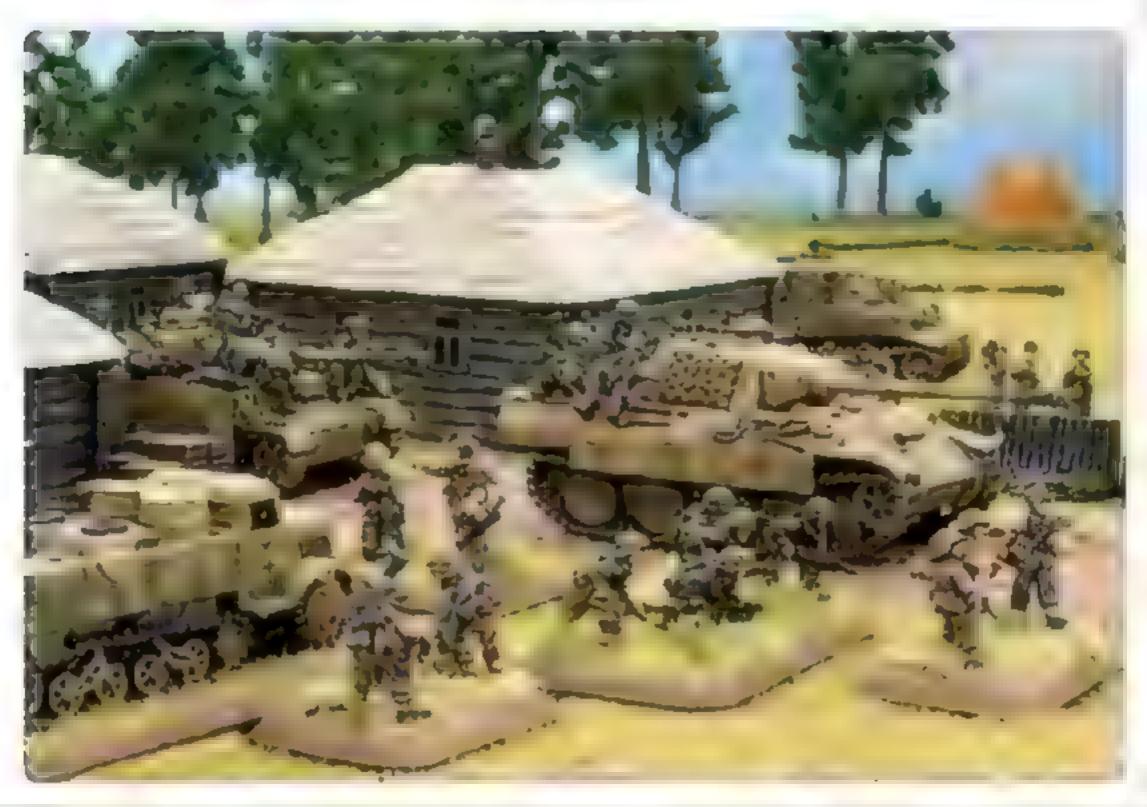
De thild cotte Incolor tena ithing to what

Throughout the war the German forces were typically well-trained and well-mouvated troops with excellent equipment. They pioneered new strategies and led the way technically and tactically for most of the war. In *Flames Of War* German armies tend to be small elite forces that are strong on the offensive











Germany lovades Poland.

SEPTEMPER 3

Colonia Trance Australia Mew Zealand declare was on Germany

GEPTEMBER 17

The Soviet Union investor

HIPTEN BLE OF

District the state of the

Paland I

NOVEMBER 8

Assessinution attempt on

1940

ithir invades Denmark

and Nagway

MAY 10

Germany invades France Selgium, Luxembourg and

ac Netherlands

JUNE 10

Iraly declares wer on Franci

and Britain

JULY 10

fisttle of Britain beginn

SEPTEMBER 13 taly lavades Egyp

1941

MARCH 12

The Printed of Street arrives as Nacch Africa, and

receptures Cyronaica.

THE PAR

Soviet Union in Operation Barbarossa

AUGUST 20

Siege of Luningras beginn

NUMBER OF STREET

British Jaumek Operation Crurader and receptural

Cyremaics

DECEMBER 7:

japusore attack Pearl

Harbour, US and UK decises



UNITED CART

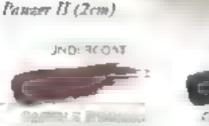
SAUDLE BROWN

BASE CONJUNE

















Y 50 £ [ - 3 - 14



Jatt In M's

The brown on grey camouflage scheme, introduced in 1935. was applied to German tanks fighting in the Low Countries, Poland, and France. The official colours RAL7016 Anthrazitgrati (German Grey) and RAL5017 Dunkelbraun (Chocolate Brown) were painted in a camouflage pattern of 2/3 grey and 1/3 brown with soft contours between the colours. This was over an undercoat o Signathraum (Saddle Brown),

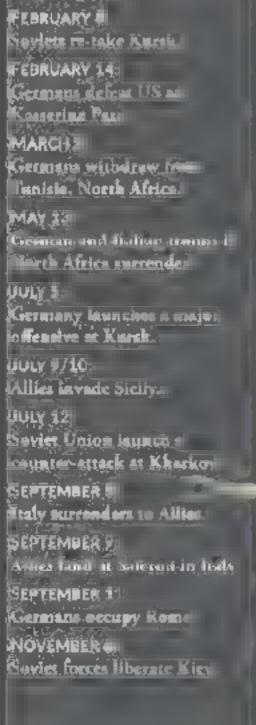


n an effort to conserve paint. the RALS017 Dunkelbraum (Chocolate Brown) was dropped and vehicles were painted in RAL7021. Dunkelgrau (German Grey) without camoullage. This was based on the official order HM 1940, no. 864, dated July 31. 1940, after the batt es for rance and the Low Countries



\*The first vehicles to enter the African campaign in 1941 were still in their unsuitable Dunbelgrau (German Grey). Crews mixed mad to a paste and applied it over the vehicle as a camouflage coat. carefully avoiding any markings.







After the initial rush to ship vehicles to Aftica, all vehicles were shipped to the Afrikakorps in yellow-brown (Green Brown). Later tanks in the African campaign can be painted with a sandy base colour.



The dark camoustage patterns on vehicles contrasted with the snowy landscape making them easy targets. Crews used a whitewash camoustage. This was applied straight over the paint, being careful not to obscure usus markings.

Some vehicles painted in the early grey scheme, had dark ye low or dark green applied as a camouflage pattern in 1942. Vehicles manufactured after this date were in a factory-applied coat of dark yellow (RAL7028 Dunkelgelb, Dark Yellow).



In February 1943 dark yellow (RAL/028 Dunkelgelb, Dark Yellow) became the official base colour for vehicles. Vehicles in the field were to be repainted in accordance with the new order whenever they could.

# 1944

ANUARY 4

lattle of Monte Cassino

region.

ANUARY 22

Allies land of Assistant

ANUARY 27

iege of Loningrad lifted.

EBRUARY 3

securate forces in the Kotton

oaket surrender

MAY 14

lovier forces liberate Crimes

UNE 5

Allies liberate Rome

UNE #

Deviandings in France.

UNE 22

The Soviet Union innoches Operation Bagration.

HOLES 2-5 349:

Allies breakout of Non

EPTEMBER 17:

Pperation Market Garden

DECEMBER 14-27 Sattle of the Bulga

1945

ARBARY 12

oviete launch an offensive nto East Prussia

inneary 17

sermans with draw from

Ardenous.

shruary (3)

Judapest falls to the Soviet

illied forces cross the Rhine

tpeti 18

iceman in Rule Pocket

ucrender

apell 3 lu

ioviet force reach Berlin.

40

**报本**不

Germany unconditionally urrenderi.

May U

VE (Victory in Europe) Day

lagan 6

first stomic bomb dropped

tegest a

oviets decisse was an inpan-

regast 🕍

apan unconditionally

urrender





Panser IV170 (long 7.5cm,

7: D

By 1943 the Germans began applying a three-colour campaffage scheme of brown, green and Dunkeigelb to their vehicles. There are many different parterns, from hard-edged to soft edged. The variety of schemes makes it relatively easy to find one you like and apply it to your army

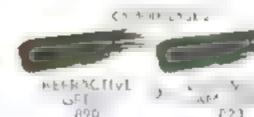
The amhash three-tone pattern (as seen on the Körugstiger in the artwork on page 48) was adopted from August 1944 out of necessity to hide from aircraft during the Normandy campaign. This patiern was intended to help vehicles hide under fo lage. These patterns generally had an even enverage of each colons, with intermingled spots.

The disc pattern campuflage Gas shown on rais Panther G. left) was a variant of the ambush. pattern that made on appearance during the Aiden sex offensive in ate 1944

All of these schemes use the same primes, base and camouflage colours, to different effect.











Due to a shortage of paint, the camouflage process was simplified in October 1944 by applying a canto drage pattern using Obigrain Reflective Green and/or Dunkelgelb (Dark Yellow) directly over the dark ted primer (Saddle Brown) Some vel ades did not even receive any camouflage at all and went into battle in only their orienes.





in December 1944, Ohogrun (Reflective Green) was introduced as the final official base colour on German vehicles. This was camouflaged as needed with Dunkelgelb Dark Yellow) and Rothnum (Chocolate Brown).

In 1945 the colour of the standard Dankelgelb changed to a more beign colour than its 1944 predecesser, due to pigment shortages. To represent this, you can substitute Stone Grey for Pan her Yellow

In late March 1945 an emergency plan went in a effect to mobilise every last seif-propelled gun and tank from Germanys tank training schools into makesh, a companunits

Most vehicles from a Penser Audulatings Verbunde (Rep accment Tank Force) would have been repainted in plain Dankelgelb when they arrived at the training grounds, and were rushed to the from line without any added camouflage. So they could be pointed in either Ponther Yeslow or the later Stone Grey.

# **GERMAN GREY ARMOUR**





BASECOAT your tank with German Grew Into thin coats an better than one thick coat. For which light colour, you may find it easier if you use a white or light grey undercoat.



WASH the sank with Black Witth. It's to active an even coverage over the whole turn letting the wash pool in the tweese contions building up too much on flat surfaces



THOY UP the wash with German Grey using a combination of drybrushing and layering



DRYBRUSH the tank with Dark Sand, concentrating on edges nested details, and upper surfaces to add highlights

# WHITEWASH





PARNE your tank townshing the first three steps for Corman Lemane above, but we White as your basecout and a treat its watered down Busin a your wash



PAINT all of the sharp and nated edges of the tank carefulls with German Grey. If you want your tanks to have a fresh cust of Whitewach, then you can stop here and just finish up with some decals.





FINESH with decab and some ween areas that expose the grey under the solutewesh. Using an old break and German Grey, push the break up and away from you on the model to the breaks pan one to medically around hatches.

# AFRIKA KORPS ARMOUR



no list of detects amount. he business of DAR recess



BASECOAT must tank with Green Brown. In a thin court are better than one shock court. For such a light colour you may find it en ser if you use a white or light grey undersoa.



WASH the tank with Sepsa Wash. Try to achieve an even overage over the whole tank, letting the wash pool in the receive without building up too much on flat surfaces.



TIDY UP the ware with Green Brown using a combination of dephenology and layering

DARK YELLOW



DEVBRUSH the tank with Dark Sand, concentrating on edges, as set do a seasof upper surfaces to add highlights

# **DUNKELGELB ARMOUR**



BASECOAT your tank with Dark Yellow. Two then coats are preferable to one thick coat. Atternatively you can use a Dark Yellow spear can for your undercoat.



WASH the tank with a mixed wath. Try to achieve an even come over the whole nearly, letting the much pool in the receives without building up too much on flat surfaces.



TION UP the math with Dark Yellow is ing a combination of drybrinhing and layering, while leaving the recenes dark



DRYBRUSH the saith south a mix of Dark Yellow and Dark Sand, concentrating on edges, raised details and upper written to add highlights.

# SOFT-EDGED CAMOUFLAGE-GERMAN

CHOIN PAFFTE



HEFLECTIVE GREEN



PLAN the pattern of your comouflage whome and mark the centre of a hore the areas of coour will go, using then lines of Reflection Green and/or Chamberte Brown.



STWPLE a mise of Reflective Green and Dark Yellow, assisting to a more a all tenthered edge or Devlumbing un page 14 for more on the stippling technique,





DAR pure Refl - ere tween into the corre of the is pped green. STOPLE a mis of I horizonte Brown a id I well is ton on to area tising gentle, foutbook strokes.



the broton areas, repeating the technique from step 2 above



REPEAT Sep Suitone for the brown area. Ming pure t Incolase Brown.



RE APPLY shading a ound airs wen or other detail, which have been covered with comouflage using a surgeted with of Sepia Rash - this trep to entirely aptional

# **GERMAN TRACKS**





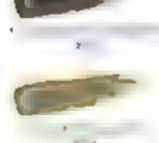
BASECOAT HE tracks with hadd't Brown Dans worry too much about getting a perfection macket serings, as moved the eulour well be covered up in following steps



# HARD-EDGED CAMOUFLAGE-GERMAN

COLOUR PA ETTE









OUTUNE a communitage pattern with Restort to a reen free free tree to the communitation, but it is assessed a grown include look at historical photos or other references for pattern totals.



FRE IN the out one with Keffe- see Covery. Then your pains not change to this it covers observable without leaving braids strokes - practice makes perfect!









REPEAT the live to be sep- so to the box a Brown has outle earth reverse the alone order depending on the particular pattern you have chosen



LIGHTLY DRYBRUSH the sar & wats I have Verlow to tone the amountings down and the Aut sugether

# HARD-EDGED CAMOUFLAGE-OTHER NATIONS

In many a flerer transportage patterns were used to all nations through our the war in over them all in detail here. Pleoty of references are available to respect and paids you. The same protospector up here; an outline first and their filling is in which was to rain hard-odged partern



AMERICAN M4A1 SHERMAN (76mm) with carried shaped black disruptive currentlage over the graduate Drah base custome.



BRITISH MATILDA II (2008) of the disconnects

Country wheme years late a new tires treemate

Encolored second in the desert in 1 2211-41



the Mer Mouse communice above of overlapping Black or server in Runce from



SOVIET 7-34 (76mm) with large put hecat Flat Larth painted over the Camoullage Office Circus base colour



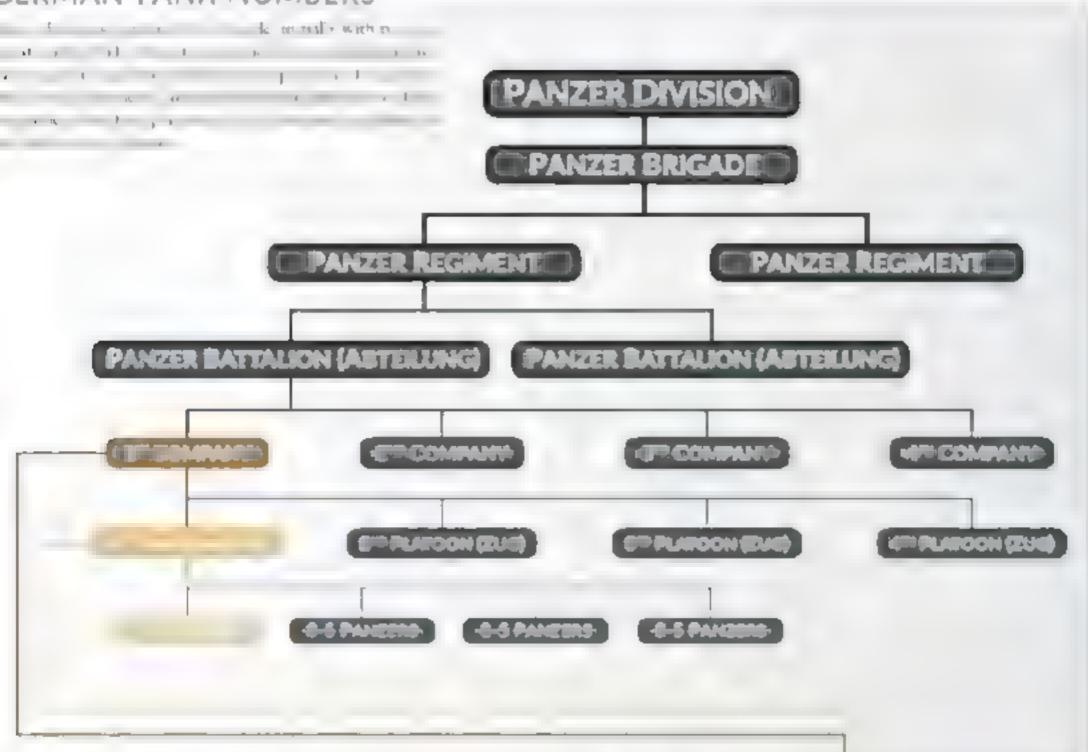
BA ITISH M3 GRANT (75MM AND 37MM) in Eurob Soud in an camoutlage patches at taking these interest with Black and White



BRITISH SHERMAN (75mm) in Brouze Green with 1 Let Brown do reperce secondage



# **GERMAN TANK NUMBERS**



Lactical markings are an excellent way of adding visual and historical interest to your models. Most German tanks feature an identifying number and a Relienbreue cross symbol on the hulf so as. Most German tanks also have discount markings as shown here on this tank from the Limiter Discoon, also known as he Chost Discoon.

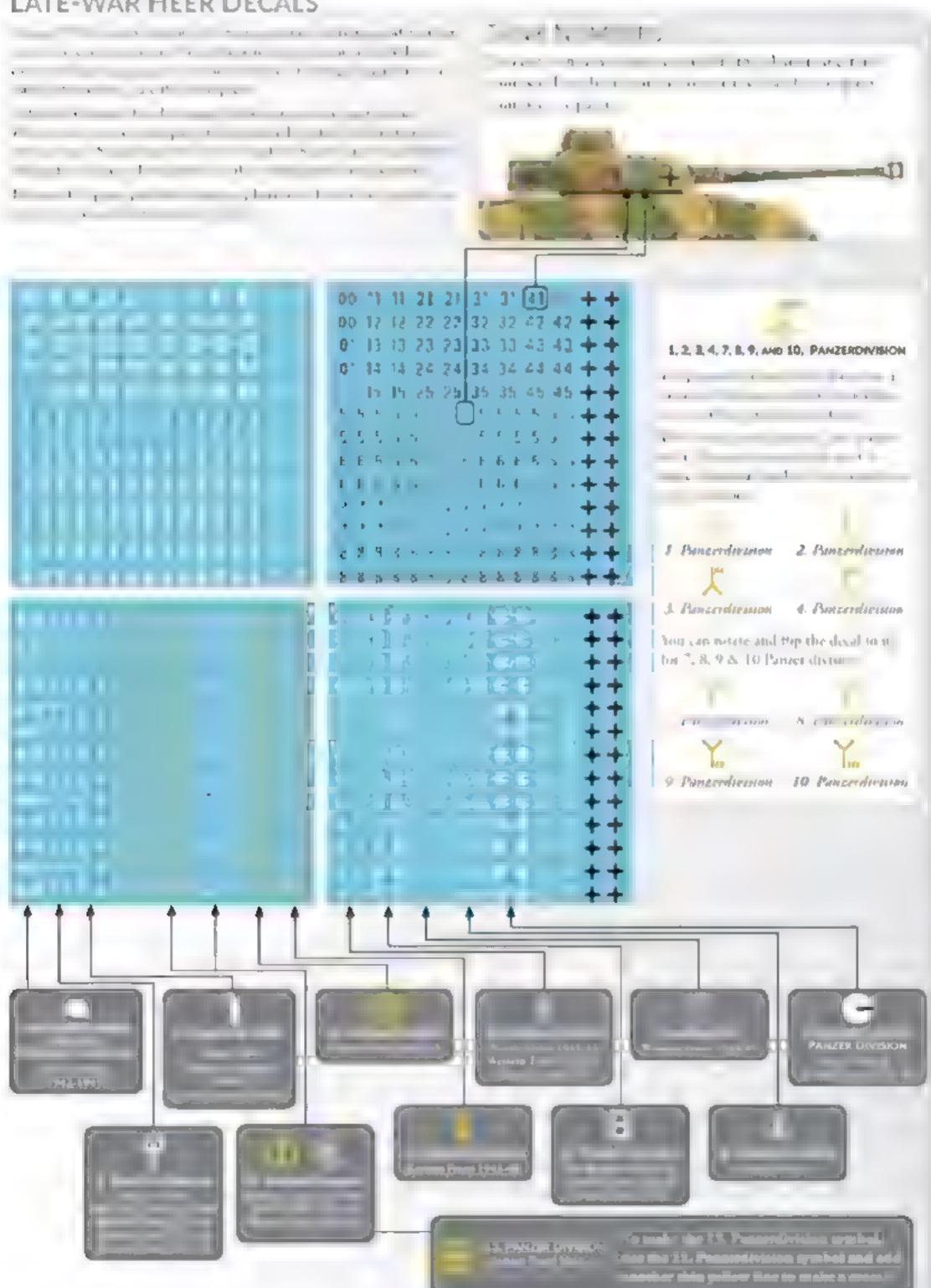
# 113

While most upon in the Certifian Army I Bowed the three digit time numbering system that fenoral

thest regular symbols after Kutski



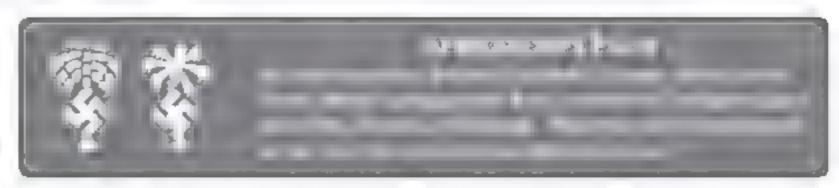
# LATE-WAR HEER DECALS

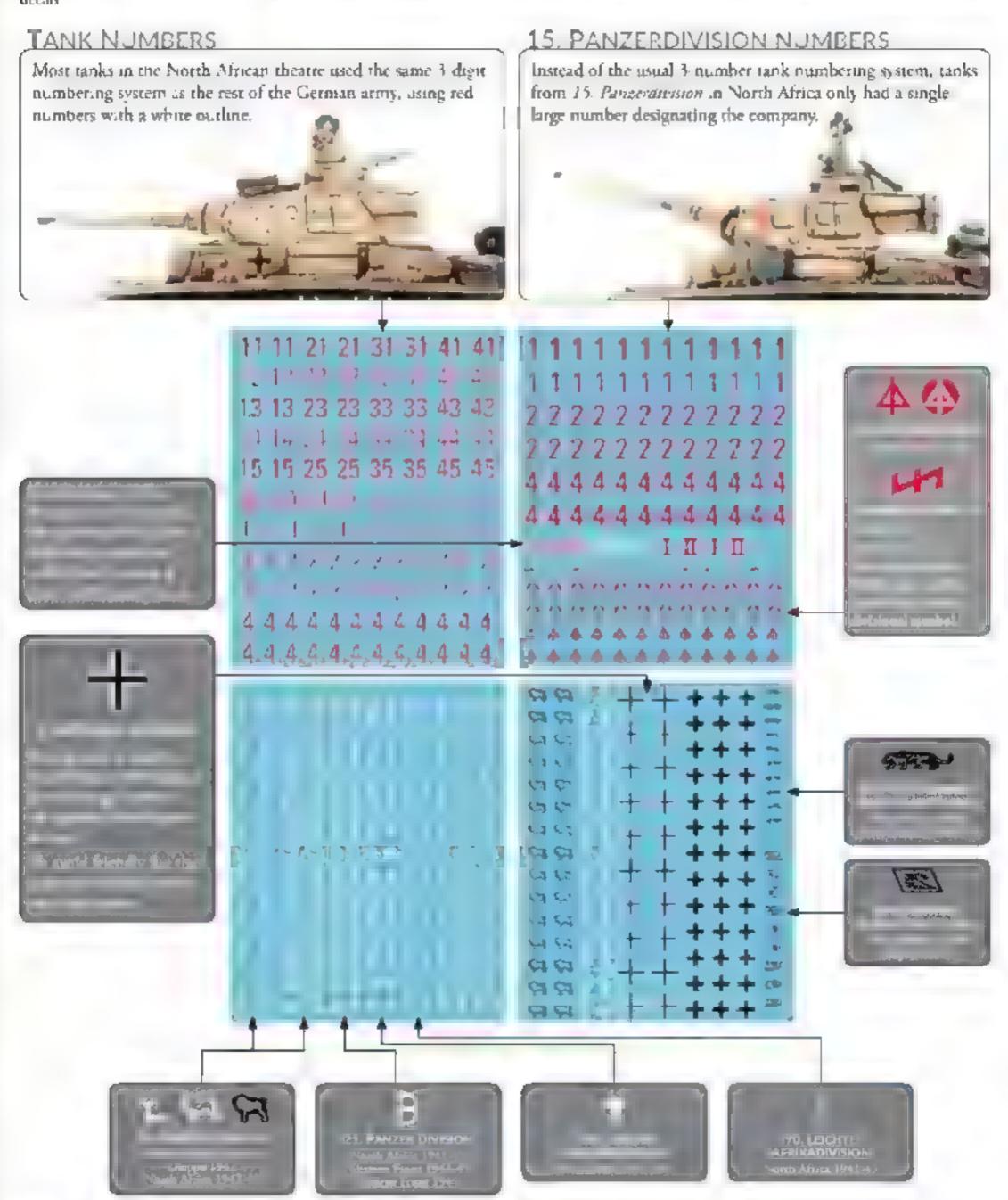


# **AFRIKAKORPS DECALS**

the Deutsches Afrikakorps is one of the most kome in its of he war, so it's no surprise that it's also a very popular force in Flames Of Who

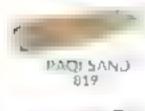
They have a in que set of markings that warrants their own set of decals.





# WEATHERED PAINT

#### **COLOUR PALETTE**







Bupp 976



BASECOAT, WASH, AND TIDYUP your tank. The example here is a Payeer III in Dark Sand.



PAINT chips and scratches, concentrating on edges and areas of beauty use. Starting with a light colour helps delineate empled areas, making them stand out

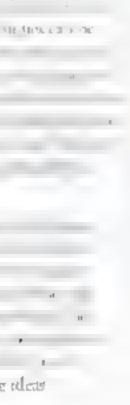


FILLIN the centre of the chip, and arratches with Black Grey (or German Green) icheng the lighter edges showing. Ity to keep iche a of an early Pancer III chips mull for a realistic effect.

SEPIA WASH STANII Brush



ADD DECALS to the turn following the guide on the previous page: See useful tip for applying decaus effectively on page 30



thorng ideas

TARGET WASH recesses for its Septia With around decals securities they are shaded consistently with the rest of the vertice, at well as to similarite by it-up dust and grease.



DRYBRUSH the whole cank aghily with Buff groung t a during appearance. I his also helps to give the tank a final highlight, empiral ing edges and details. If your voir le has a du ker base colour you could drybrush with Dark Sand or longs.

Sand instead.



More examples of chipped paint. Note how adding chips or scratches over decals beins set the decas off. Chips and scratches are good places to start streaking from



# WAFFEN-SS DECALS

Size. Lesont de acripi owing is their price volume in the design of their price volume in the therefore entered to price volume in a quarter of the price volume in a

# WHERE MARKINGS GO

As we may wants the markings off ere is no one correct answer where to put your mark ups as they could differ from unit to unit

When you are getting result in as pro your decals the been flong in do is not a some haroness photos for any arisin. A Google many carefully a ring out wet site are good places of any

As a general rule tanks usually have and numbers painted on the sides, and sometimes, rear of their turrets. There is usually at least one Bulkenkreuz visible on each side of the tank, except the front, while divisional symbols can usually be found on the front and rear of vehicles. Below are some examples from Bartlefron, a collection.



# **GERMAN INFANTRY**

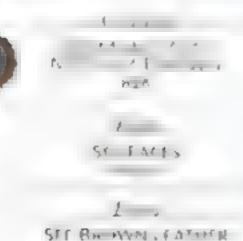


1 20 8 7 . .

SEE PAINTING BEACH



SEE INFANTHY WEAF NA





# **GRENADIER UNIFORMS**



BASECOAT the uniform n. uning treatment with territory



BASECOAT the heimet gas make cause ter and the men timen dispures to it in the track free new track freen



WASH the tigure with Book Worth to create distaling



TIDY UP the uniform with forman Lieta Grey, leaving darker mading in the folds and recesses.



MIGHLIGHT the retires and ga was he can stee with a recent tier Cam.

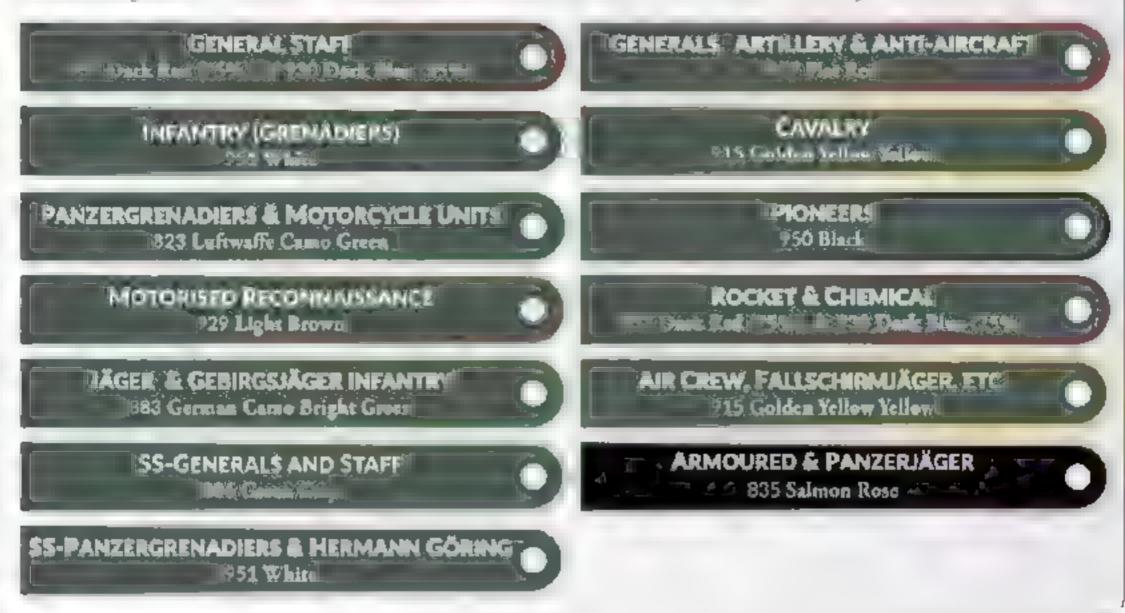
Dark Green and German Field Greek.



HIGHLIGHT the edges and names tolds of the unclosm with a min of German Field Grey and Stone Grey

# WAFFENFARBE (EPAULETTE SERVICE COLOURS)

Shoulder boards are the simplest and most visually pronunent German insignia. The German Waffenfarine of the arm-of service colour, denotes a recondition speciality. This is denoted by coloured piping armonic the shoulder boards. Glancing at two agures, one with the shoulder words and one without, the figure with them will seem to have an entire additional level of detail and accuracy. The modelling of the shoulder boards on the miniatures will accuratly aid you with your painting. As they are both well defined and russed there is no need to guess how big or where to piace them, and the hard edge allows more freedom with the brush. Below is a list of the most common colours found in a Flames Of War force.



# PAINTING WAFFENFARBE





PAINT the whole shoulder strap White,



PAINT the centre Ger Cam, thark Green, leaving a fine line of White shotting.



# **SMG POUCHES**



rom ar il in were caneac



BASECOAT pouches with German Field Grey.

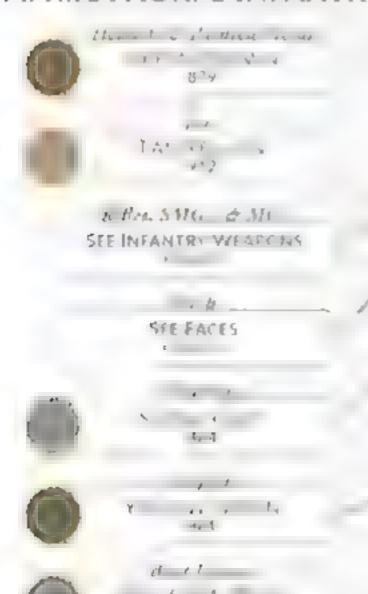


PART a mix of German Field Grey and Ger Cam. Beige, learning shaded



HIGHLIGHT the edges with Gen. Cain Beige to increase definition

# **AFRIKA KORPS INFANTRY**





The Afrika Korja uniform, developed by the Tropical Institute of Hamburg, was made from otive-colouted light weight cotton fabor. Our in the same sixte as he haropean uniform.

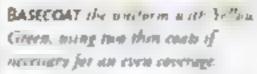
transplants and V strap tospenders were made to replace the usual leather versions, which were less mitted to the desert climate.

Frotweat consisted of knee-length greeti canvia boots, with brown leather reinforcing. Shorter anale-high boots of the same materials were also made and proved more popular—some soldiers modified their high boots by cuttang hem down to anke-length.

# **AFRIKA KORPS INFANTRY**









STONE GREY

PAINT the cantas welding year Name. Grey.



PAINT the testing amount it on powerer and rifle dong Beige Brown. They could also be black



WASH the figure with Brack mash or Sepin Wash to add shading, boo could me Black Wash enstead.



HIGHLIGHT runed areas of the uniform using Vellow Green lightened with a little Stone Grey.



# SPLINTER PATTERN CAMOUFLAGE

Splittermaster (German for splinter-pattern) was developed by Germany in the late 1920s, and was usued to most Heer units

The Zelibahn tent quarter in Splinter pattern was the only official Army camouflage until 1942, when they added the smocks and helmet covers, its the same pattern. Only one side of each was printed an Splitternmeter, while the other side was left white for snow camouflage.

In April 1942 a small number of Wintertamaneug suits, consisting of a padded jacket, trousers, separate hood and mittens were produced. These were also printed only on one side and were left white on the other aids.

The splinter patters concain of a discipline pattern of hard edged polisions, with shall corners between coloured parches. A random pattern of dashes, giving splinter its name) was appared of places to improve the camouffage effect.

# SPLITTERMUSTER (SPLINTER PATTERN)



The Latinatife (like the artwork to the left) used a slight's different sersion of Splinter to been troops (above), how can paint both of these the same way last add a bit of Green Ochre to the Ger. Cam. Be go for the cuttwaffe sersion.



# SPLINTER CAMOUFLAGE





BASECOAT heimet over unmontage more and le thating their worn as a punisher with their trans Berge



WASH with Rise to that to to vector depth and shading.



finy UP seaso free Cam Beige looving darker shading on the falds and reason



PAINT are angular, signing pattern with feer Care Medium Brown Aim to cover approximately one third of the surface.



LUFTWAFFE CAM GREEN

PAINT patches of Enfountle Cam. Green between the brown, again acrosing to create jugged, angular shaper. Mec in a bit of Gree. Cam. Bright Green if you want a brighter green.

# LUFTWAFFE FELDDIVISION JAGER





BASECOAT the trouvers and field cap with Enfrwaffe Uniform



WASH with Have Auto a create depth and shading

SKY GREY

- Medum Bosh



OPTIONALLY HIGHLIGHT with a mix of Luftweeffe Uniform and a Flat Blue

# WHITE CAMOUFLAGE UNIFORMS





BASECOAT the units in and beforet with London Grey.



PAINT with New Green searing darker shadows in the folds and receives.



HIGHLIGHT with White wing the layering technique (see page 14)

# WAFFEN-SS CAMOUFLAGE PATTERNS

Waffen-SS front-line combat format ons were easily recognisable from the *Heer* by their distinctive camouflage clothing.

By 1944 several patterns were developed such as Plane free Palm and Oak Leaf. Each of these was produced in several versions with different colours for different seasons, as well as unique printing effects such as bitured edges. All this material was printed with autumn colours on one side and spring or summer on the other, making them reversible and capable of being worn almost all year round. There was also a reversible padded winter uniform with spring Oak Leaf on one side and white on the other.

There were a number of different camouflage schemes. Shown here are some of the more common ones.

### EICHENLAUBMUSTER (OAK LEAF A)

Oak Leaf A was in use from 1943 antil the end of the war. Both the spring and autumn sides can use the came base colour.







# OAK LEAF A









BASECOAT the houses you and make nate one more server and garnered cuffel with Ger Cam, Pale Brown.





PAINT a supplied pattern of parche and puts a cor Cam Measure Hence (for the automic pattern).



WASH west Sopra that to be relate town. reg to the latter town



EIGHT BROWN

PART number dut of lacts House mattern try (no Care Maham Baue) distribution



MIGHCIGHT with they them full Hannen and ted, up any meny areas of our bibut leave shading in feels and recessor



# **PEA DOT PATTERN**



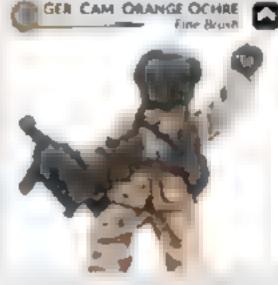


BASECOAT the tunn tre ognizative to the straight sleeper and the packets an he front) Ger Cam. Orange Ochre





WASH liberally with Septa Bash to add shading and deposition. Add a bit of Black Wash for singleth darker shadow



TIOY UP with the wash with Ger Carry, Orange Other





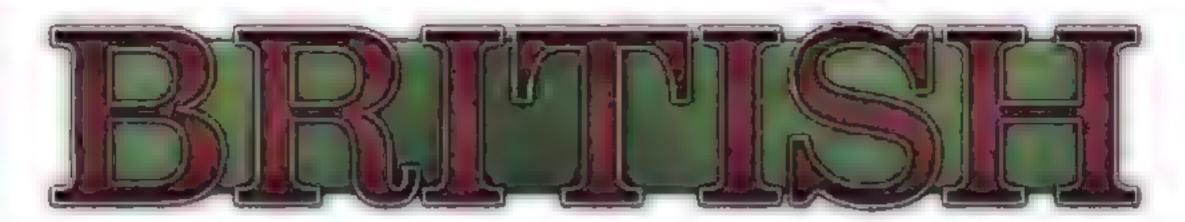
PAINT dute sone insul' irreguest onsibe of teer Cam. Dark Green.



PAINT um las das una papition with Stone Gres, or Ger. Cam. Pale Brenen. of you don't have Stone Grey.



ADD mat during the Cam Bright Green. Paint the helmet cover Oak Leaf A (see obene)



"If you have an important point to make, don't try to be subtle or clever.

Use a pile driver. Hit the point once. Then come back and hit it again.

Then hit it a third time - a tremendous whack.

-Winston Churchill

Throughout the War the island nation of Britain stood defiantly against the Germany. The well-trait ed and experienced tog me its of the British Arms were supported by a selection of powerful tanks and attillers. The British in Flance Of Ware are stubborn defenders who will often hold out against an enemy long after another force may have broken





TANK TRACKS

PAGE 38

TOOLS

PAGE 37

P







#### **BEF Infantry Tanks**

All vehicles and guns
belonging to the Infantry
Tank Companies, Divisional
Cavalry Squadrom, or Rifle
Companies, and those from
Divisional Support units had
wavy diagonal and horizontal
bands in Dark Green Ga (Ger
Cam Dark Green) punited over
the basic colour of Khaki Green
G3 (Olave Drab)

#### **BEF Armour**

Light and crusser tanks from the Armoured Regiments of the 1° Armoured Division had their Khaki Green (13 covered by Light Green (15 Reflective Green) over most of the vehicle, leaving wavy diagonal and horizontal bands of Khaki Green G3 (Olive Drah) as the disruptive camouflage colour

#### Caunter Camouflage

A lot of 7th Armitized Divisions tanks were painted in a three colour camouflage scheme known as Caunter. This angular scheme was made up of three colours in a complex pattern of straight disruptive lines.

#### Desert Colours

Desert camoutlage sparked quite a debate as far as what colours and patterns were best However, after much discussion and testing, a simple yellowsand colour, Light Stone No 61 (Dark Sand) was used for the duration of 1941 and into 1942





#### US Equipment

In late 1941 the first of the US lend-lease tanks arrived in North Africa. These were immediately painted in the many various camoutlage patterns found in the Eighth Army in North Africa.

#### Service Colour

PARK FLACE

The British exported tanks, vehicles and other equipment to the Soviet Union as a part of the Lend-lease program, Tanks, such as this Valentine, were shipped in the standard S.C.C. 2 Service Colour (Knaki Grey) and were seldom repainted.

19 O 14

#### Sicily and Italy

When the British Army moved out of North Africa and into Italy, a new scheme was applied to their vehicles. This one had a base of Light Mud (Khaki) with cloud-shaped patches of black to better match the hilly terrain of the Italian countryside.

#### Northwest Europe

During the but d-up to the invasion of France, the British switched their basic scheme from Service Colour to S C C 15 Olive Drab. This colour was intended as a match for the US Olive Drab, but it quite quickly faded to a greener shade. All vehicles were thus painted and prepared for the invasion



#### EIGHTH ARMY DESERT ARMOUR







BASECOAT water tank with Dark Saud. Two thin coats are better than one thick coat. For mich a light colour, you may find it easier if you use a white or light grey undersoat.



TIOY UP the touth with Dark Sand using a combination of devleration and layering (see page 12-14)



WASH the same with Sepid work or Buck wall or a mix of the two). Try to active a an even coverage over the white tank



The best start by pointing and spoke and all the opposite and all the opposite and all the opposite and all the opposite and and all the opposite and all th

#### **DESERT SAND CAMOUFLAGE**









BASECOAT your tank with Dark sand. PAMT (loud-shaped patrities of Rossian Uniform, Camouflage was applied from a standard temptate (see our website for more details).



TION UP the wash with Dark sand & Russian Uniform using a sembination of drobinshing and layering, leaving darker shading in received areas



WASH the tank with Sepia Wash to add chading



Dayanush the tank with frags Sand, concentrating on edges, nated details, and upper surfaces to add highlights and give the tank a weathered, duty finish

to Oline Catacit



#### MID-WAR ARMOURED SQUADRON TANK MARKINGS





#### **BRITISH SERVICE COLOUR**



The Courch II airlo of Kingle rue were sent to the desert for Operation Supercharge. These Charel I swere, curred in standard desert colours.

More Churchills tought on Junis a spotting Service Colour and Dark Brown camentage. Cross of an incediap and unit paste and approach to of their tanks as additional camouflage.









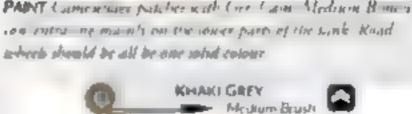
preferable to one thick out and you must red a reaser of you use a white or light grey underenal.



WASH the tank with Sepile With to add thatting and depth to the model.



GER. CAM MEDIUM BROWN 🗗





TIDY UP the wait is the khole tites using a come nation of deshrushing and layering, leaving darker shading in recessed



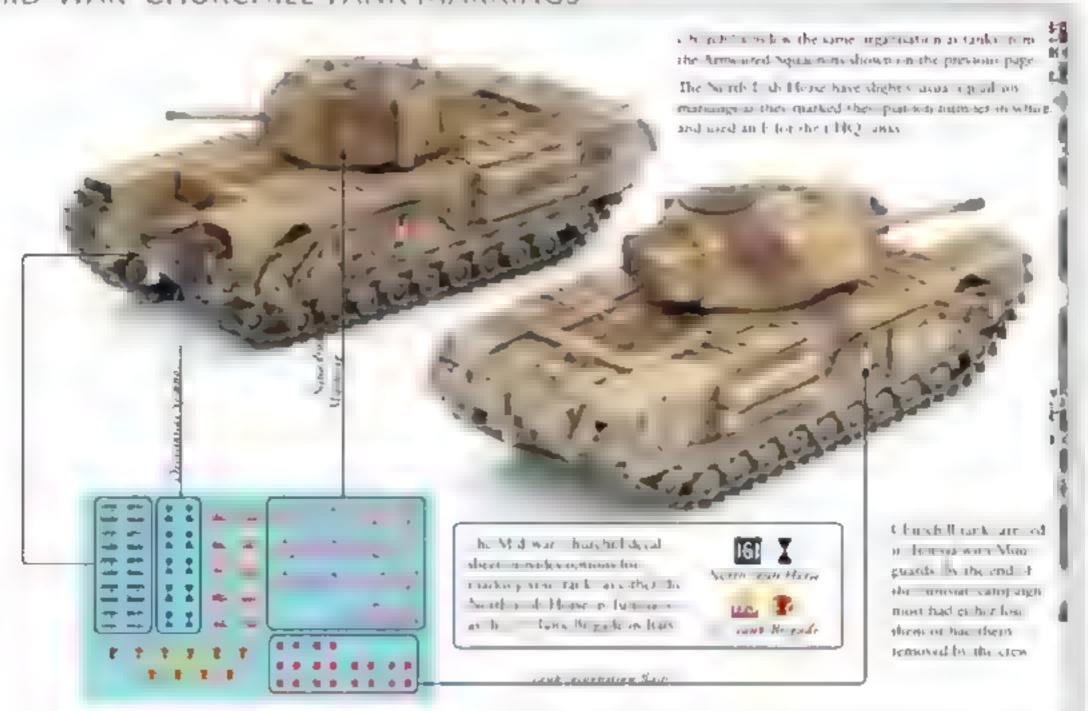
TION UP THE distribution communitage areas in a unital section using Ger, Cam. Medium Broson.



DRYBRUSH the rank with Iring Nand, oncen rating on edges nessed details, and upper surfaces to add highlights and give the tank a weathered, dusty finish.



#### MID-WAR CHURCHILL TANK MARKINGS



#### BRITISH LATE-WAR ARMOUR



of despending and in e-ing are page 14), while leaving the

menerilara

highlights, particularly on edges and raised detail.



#### LATE-WAR ARMOURED DIVISION MARKINGS

below is a magram captaining how the mark by system for typical British armouncid divisions worked. The Late war Decat sheet has markings or the distions them, below. The cale war marking are very smiles to be Marking that it was might be such and Reg. ment numbers were changed in an effort to confuse the enemy. Check out the website for more in depth arricles

#### ARMOURED DIVISION INSIGNIA IN NORMANDY.









7<sup>th</sup> Armoured Division

11° Armoured Division

4º Canadian Armoured Division

#### **Guards Armoured Division**





#### **Armoured Division Brigades**

#### Armoured Brigade



Brigade HQ



Armoured Regiments



Motor Battalion

#### Infantry Brigade



Brigade HQ







Rif e Batta ions



Machine dun Battal on

#### Other Arms of Service



**Anti-tank Regiment** Royal Artillery





Fie d Squadrons, Royal Engineers





Anti-arroraft Regiment



Fie d Regiments Royal Arti tery



Armoured Car Regiment Armoured Recce Regiment

#### 5 Guards Armoured Brigade - Guards Armoured Division -

#### Brigade HQ





2nd Armoured Battalion Grenadier Guards (Sentor Regiment)

1st Armoured Battalion Coldstream Guards (2<sup>-1</sup> Regiment)

2nd Armoured Battalion Irish Guards (Junior Regiment)

















Regimental #0

Regimental HQ

Regimental HQ



















A Squadron B Squadron C Squadron

A Squadron B Squadron C Squadron

A Squadron B Squadron C Squadron

Each Squadron is usually 20 tanks



1st Motor Battalion Grenadier Guards







#### 79TH ARMOURED DIVISION -



Armoured Transports



(Armoured Vehicle Royal Engineers)



Kangaroo **Armoured Transports** 

al of the feat and tailers a has I busing Wald the Biotrafa ac grad also Rosson 



a nathemore above are to the 9" Bar alicin-Royal Lod Restment recorporationship 11 Royal Comment Corn City Bully the came marking but on blue to fact



Un You or find Resear Regions of ored at a signification to the appropriate and a test for 1 - 1 a men or Sharmons and Sonares in Italy



, l 

#### BRITISH ARMOUR IN ITALY



1º Armoured DIVISION



6" Armoured Division



5º Canadian Armoured Division



6" South African Armoured Division

#### Independent Armoured Brigades in Italy

Armoured Division Insignia in Italy



9º Armourad Brigade



23" Armoured Brigade



4º New Zoaland Armoured Brigade



21° Tank Brigade

#### OTHER TANK MARKINGS

11

BRIDGE WEIGHTS: Bridge classification numbers identified whether a vehicle was able to cross a bridge or not. Most vehicles only have one bridge weight on the from of the rehale. Use he Son small schooles like arm smed aretrucks or half traces. Use the 15 on 5 part tanks. Use the 27 op niedern tariks nie Cronswells and Shermans and the to an neavy tanks ske t hands be and tomorphics

SERIAL NUMBERS: Lach vehicle has a white sensal number. The II series of numbers belongs to tanks the Z series helorga to had sacks and the Frience belongs to armouted cars and carners

ALLIED STARS: Most British vetucies have a small star on each code and of enthe rea. Most vehicles also have a sargestar as an air recognition vembre on the can or the top of the turtet



#### TYPICAL INFANTRY DIVISION MARKINGS

the constraint of the second of the second s enters is the second to the second territorial and territorial and

#### **BRITISH INFANTRY DIVISIONS.**



50° Infantry DIVISION



510 Intantry DIVISION



efentry D w sion



South African Infantry Division



1º Canadian Intantry Division



4th Indian Infantry DIVISION



New Zealand Intentry Division

#### Infantry Division





Infantry Division HQ

1" Brigade





Infantry Battalions

2" Brigade







Infantry Battakons

2<sup>-1</sup> Brigade







Intantry Battalions

#### Other Arms of Service







Field Regiments Royal Art Nery



Recommaissance Regiment







Field Companies Royal Engineers

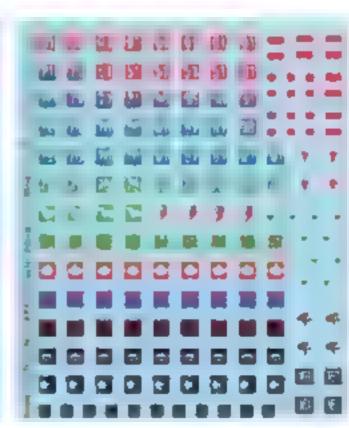
Light Anti-aircraft Regiment

Machine gun Bettalion

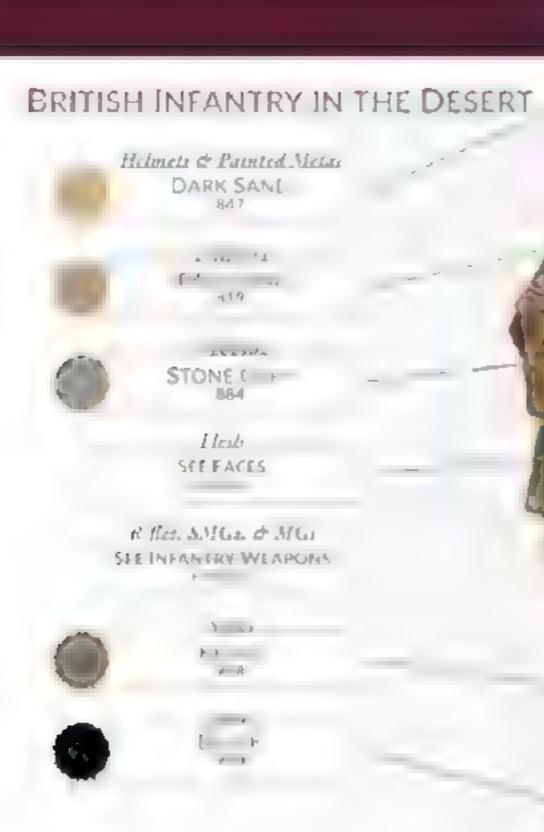
Anti tank Regiment











British troops in North Africa. wore a uniform consisting of khaki deill shorts or slacks with long-sleeved Aerrex shirts

The light khaki drill fabric was good in the hot desert sun, but was usually insufficient for the could desert nights

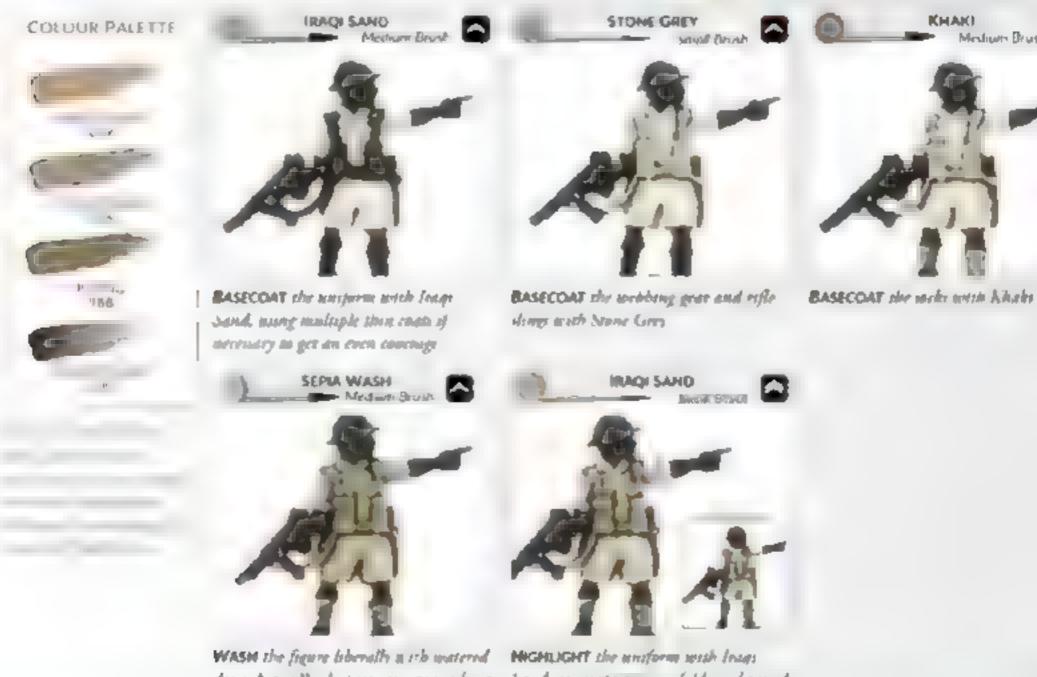
Webbing equipment was simple raw canvas, not treated with Banco (the coloured cleaning paste which uniform regulations. required for troops in other theatres)

Metal items such as brass buckles were left unpolished to reduce potential glare.

KHAKE

#### DESERT UNIFORMS AND WEBBING

ever light colones

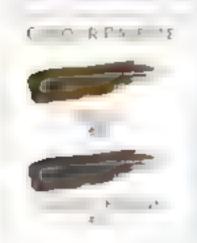


down Sepac Wash since you are washing. Sand, concentrating on folds and raised.

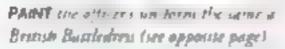




#### **BRITISH OFFICERS**









PAINT she cap brings Brass



PAINT the scatter strap Leather Bring



#### **BRITISH BATTLEDRESS**





BASECOAT the uniform English
Lindorm, using two thin coats if
necessary to achieve an even coverage



BASECOAT all webbrug opuspmens with Russan Unsprem. Alternatively. Paint at plain Whali



WASH the figure tiberally with Black Wath. Optionally, add a touch of US Dark Green to give it a greener tone



PAINT the new to me weet I new home to the me form "est my durch distance in the reversed series."



Hightight the nebbing equipment with a mix of Routan I estorm and Nume Grey, or plain Khaki



HIGHLIGHT rapied areas of the uniform for a brighter, higher-contrast look

#### HELMETS





BASECOAT the nelmet with Russian



US FIELD DRAB

PAINT the bestian comouflage strips UN Field Drub



WASH the betwee liberally with Rusch. Wash to add shading.



STONE GREY

HIGHLIGHT some of the because streps to the Seone Circu





#### **BRITISH PARATROOPERS**

The British airborne soldier like his comrades from the rate companies, wore the Battledress. This consisted of a short jacket and trousers in a green-brown dark khaki.

Over the standard Battledress they were their unique Denison camoutlage smock, designed in 1942 by a Major Denison. The original Airborne Smock Denison Camoutlage had green and brown camoutlage colours hand-painted with a large brush.

The subsequent screen printed pattern which was in use by Operation Market Gatuen emulated this look, including prominent brush strokes so if your application of the green and brown swarches is somewhat a reaky or panchy at the serier. If e dies used were not particularly colourtast, and taded quite quickly with wear.

Surviving examples have a very in uted, washed our appearance qui e different to their original factory-fresh look. You may want to paint some or all of your paratroops' smocks with faded colours, making it clear that they have seen some use

Although equipped with their own special design of steel helmet, covered with neiting to which strips of coloured camouflage fabric could be ned, some British paratroops still wore their famous red beret into battle.

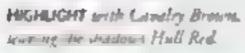


#### **AIRBORNE BERETS**











HIGHUGHT the edge of the beset with a mice of Cavalire Brown and Flat Red

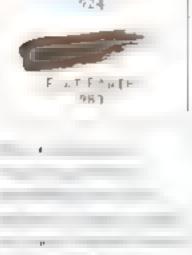


#### AIRBORNE CAMOUFLAGE

#### COLOUR PALETY







ENGLISH UNIFORM Large Brush



BASECOAT the smock English Uniform, leaving the deepers recesses bluck

FLAT EARTH



HIGHLIGHT the English Uniform with Green Ochre



PAINT irregular patches of Rustian Uniform, or Reflective Green, covering roughly a quarter of the smock-



PAINT Flat Farth in irregular patcheto that roughly half the much t covered in comouflage.



DRYBRUSH lightly with Green Ochte to break up the hard camouflage lines while leaving the receives darker.

#### **AIRBORNE HELMETS**

**COLOUR PALETTE** 



BRONZE GREEN Arigh Co.



BASECOAT the belines Bronze Green



**RUSSIAN UNIFORM** 

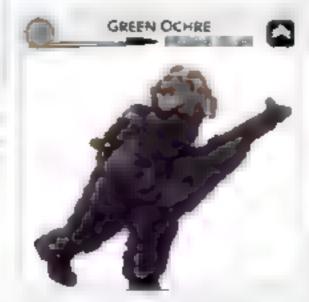
DRYBRUSH the helmer with Russian Untiferent.



PAINT all of the Hessian streps Flat barth.

FLAT EARTH

- Medium Brush



RANDOMLY repaint half of the Hessan sprips Green Ochre



DRYBRUSH the believe lightly with Green Ocher to suften the camouflage colours





"The Red Army and Navy and the whole Soviet people must fight for every inch of Soviet soil, fight to the last drop of blood for our towns and villages... Onward, to victory"

-losef Stalin

With the fascist invacer on their doorstep, the Soviet people were conset pied in their in flions and thrown forward, often without the best equipment and certainly without a great deal of training. But the Soviet Union and her Red Army were quick to adapt. Mass production and increased combat experience produced a unique fighting force to rival that of the Germans. In Flames Of War the Soviet army is plentiful, fielding larger forces than any other nation.





SOVIET ARMOUR PA 1 8

AIR RECOGNITION

TOOES PALE .O

MARKINGS · A E L



TANK TRACKS 26 E.

INFANTRY WEAPONS PAGE 25

WEATHER EFFECTS PAGES 31 & 90





#### SOVIET ARMOUR



#### WINTER WHITEWASH





#### SOVIET TRACKS











BASECOAT the track links with Flat Brown, carefully arouding the rubber on the road wheels.



WASH the reach lauks south Black heavily thinned with water. You could substitute Black Wash



DRYBRUSH the tracks with Oily Steel Make this drybruth quite beavy, as it will be toned down in the next step.



WASH the tracks with Septa Wash to cecase represent grime and greate



LIGHTLY DRYBRUSH the edge of the tracks with Oily Steel again, to accentuate the much edges.



ATTACH the tracks to the tank and tidy up the tyres with Black. Paint the wheels the same way as the armour

#### AIR RECOGNITION MARKINGS

**COLOUR PALETTE** 



BLACK BROWN



PENCIL IN times for your markings. Using low-tack masking supe as a guide will help you get a straight line. Align the tape to the top and bottom edges of the decat



LAYER it coat of White over the top of the White Grey. Feet free to said a few memy paint drips to give each tank some endingdustin.

# WHITE GREY

'UNDER-PAINT' i e. batecoat) the area for the dir recognition marking with White Corp. This will make painting the White in the next step eatter



WMMI a very thinned-down glaze of Ger. Cam. Black Brown over the air recognition marking and the decal. This will tent down the White and help blend it into the tank



#### WEATHERING SOVIET GREEN













PAINT chips and scrutches with a fine brush, concentrating on reigns and areas of heave suc.



Fitt IN the centre of the chips with Ger. Cam. Black Brunn. leasing the rages of the German Camo Bright Green Showing



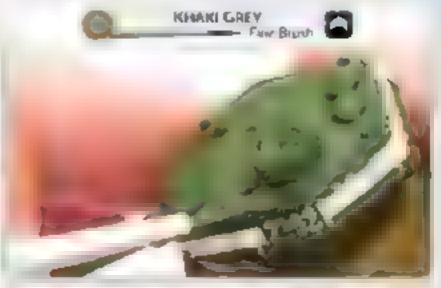
PAINT seek a greate a st constrained dean flowt though starting at corrusion points like paint chips and weld lines.



BUILD UP we decade in the channel down Khake ters, legt t Brown or Flat Brounds



TARGET WASH IC + WI SE IN Black Brown or I will Brown to contests a loss of up it as there by allerton on the orner



TARGET WASH would then with Abake tires or Light Brown Be areful was to go too overhoused with the yes to make

#### SOVIET TANK CREW



5 3

You have a lot of options when it comes to painting Soviet tank crew. Their overalls, up he dark hore, because the same Khaki colour as Sosier solanies, on forms occupage 25, or black (see Painting Black on page 2). The hesmet can be canvas (below), leather (see Brown Leather on page 26) or black



BASECOAT He writering a specially Unitaria and the beimer knahr fires



WASH the betteet and overal with Bout Wash You and we swee Black bearth thermed with water.

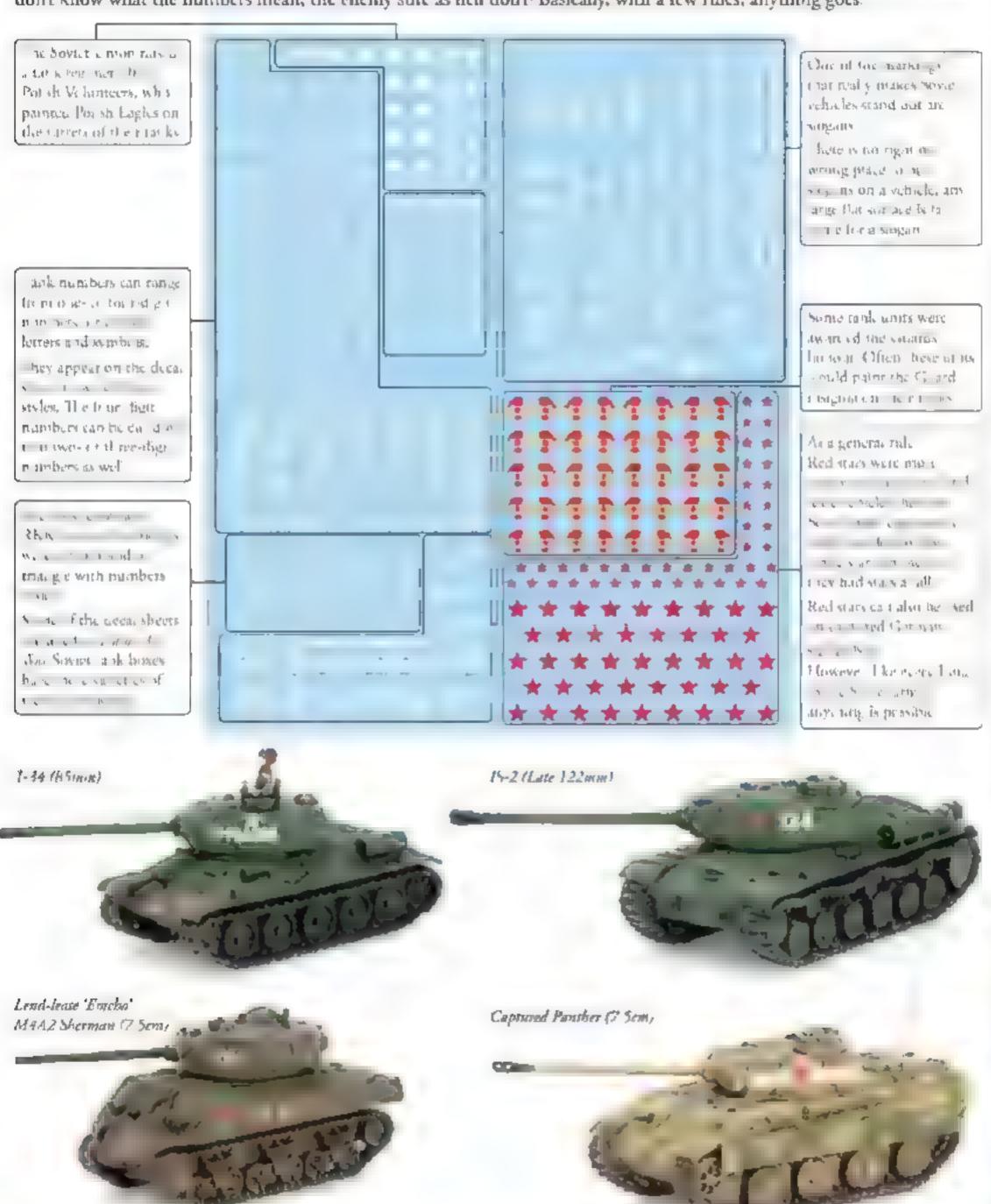


HIGHLIGHT the he met to the a mix of Klacks over and more from I my up the overalls with Luftwaffe Uniform

## Z

# **SOVIET MARKINGS**

While there were standard tank marking and numbering systems in all the other major armies, there was no such system in the Red Army During World War II regimental commanders were responsible for the style and meaning of the numbering system in use by their regiments. This was done during WWII so as to atterly fool enemy intelligence—if you don't know what the numbers mean, the enemy sure as hell don't Basically, with a few rules, anything goes!





#### SOVIET INFANTRY



Helateat
REFLECTIVE GREEN



Shoulder-board Peping CAVALRY BROWN



Webbing Laurpment
GREEN GREY
806
OR
KHAKI

Refles & SMC13
SEE INFANTRY WEAPONS
PAGE 25



STONE GREY

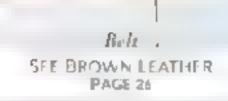


Hudueme KHAK! GREY 8:0 OR RUSSIAN UNIFORM



deots BLACK 950





JE BASIC OR ADVANCED FACES

Sovies sum ner and winter uniforms were slightly different. Summer uniforms tended to be a ichain colour, while the winter an forms tended to be a bit greener.

A lor of a hories soldiers webbing, equipment is made from canvas. Since all of this gear is made at different times in different factories, the colour can vary greatly from piece to piece.

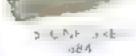
This means you can vary the colours on your miniatures as well. This can be a matter of shoply varying the amount of Stone Grey you apply as a highlight You can also alter the shade by assing a different basecoat colour, e.g. US Field Drab (below) versus Green Grey (opposite page

#### **CANVAS WEBBING EQUIPMENT**

COLOUR PALETTE









BASECOAT the satchel with UN Field.



WASH with Septa Wash



HIGHLIGHT with Stone Grey.

#### SOVIET UNIFORMS





BASECOAT the un form & see from wine new stan . mas I never were in actions are even continued.

ICHAKI GREY



BASECOAT of sections equipment with a rest tirely



WASH the figure there Is with Septit Wash to add depth to the unduring





TIDY UP be auxform a set Kinder Corry leaving dark disadours in the opened dente



PAINT the care on areas hierer in ca-



HIGHLIGHT ranes are a of the we to me for a brighter, higher-contract land

#### KOMMISSARS & PIPING





BASECOAT INC pants and pented dep Infrueffe Uniform. For non bonomicuar afficient apopulation town Khaki Lines



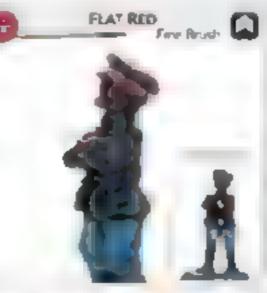
PAINT a Catalog Broton band around the have of the peaked cap



WASH the pants and up with Brack Wash, to add shading and hide any untid you around the red hand



HIGHLIGHT HAY paints and the supof the peaked cap with a mee of enfrantle Bur and Royal Hone

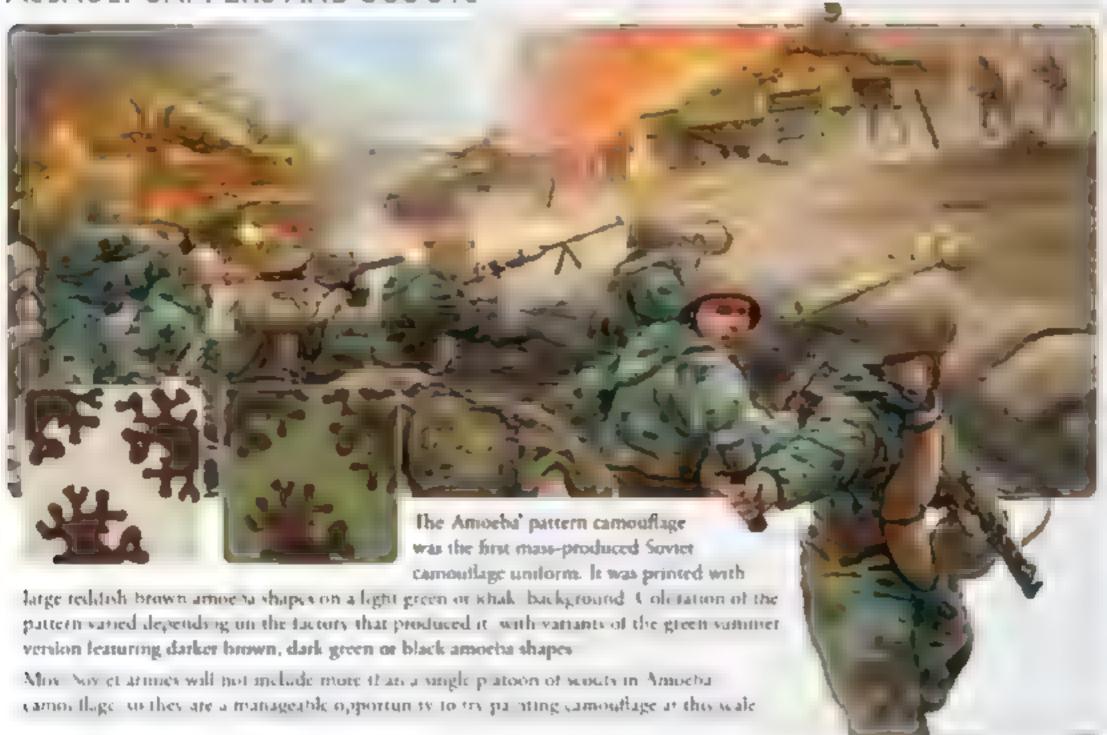


PAINT very 11 in 11 ter around the edge of the cap and down the legs of the pant





#### ASSAULT SAPPERS AND SCOUTS



#### AMOEBA PATTERN CAMOUFLAGE

Gregi



### 2

#### WINTER INFANTRY



FLAT RET



Budenocka Helmet MEDIUM GREY 987



CAVALRY BR ...



MED UM GREY



KHAKI GRET



TAN EARTH

111

Take the baric uniform, the colours of Soviet greateness varied considerable. Aside from differences between factories, a large number of wool coars were supplied by the Western Abies under the Lend-Jease programme.

#### SOVIET FLAGS

#### COLOUR PALETTE









BASECOAT the flag Hull Red



HIGHLIGHT with Cavaley Brawn, either by beary drybrushing at layeting



HIGHLIGHT she flag agusti with blat.

#### **GREATCOATS**

#### COLOUR PALETTE







MEDIUM GREV
LOTTE Brush

BASECOAT the unsporm Medium Grey, using two time mute if necessary to delecte an even constage.



HIGHLIGHT raised areas of the nonform with a mix of Medium Grey and Mone Grey for higher-constant



WASH the figure liberally with thoused down Care Cam. Black Brazin.



DRYBRUSH the hottom of the greateout with Flat Earth to represent word and dozen



FIOY UP the uniform with Medium Grey, leaving dark shadows in the received areas.



PAINT rank inagence on the corners of the collier tales Canatry Brown. You could also interested with Flat Red

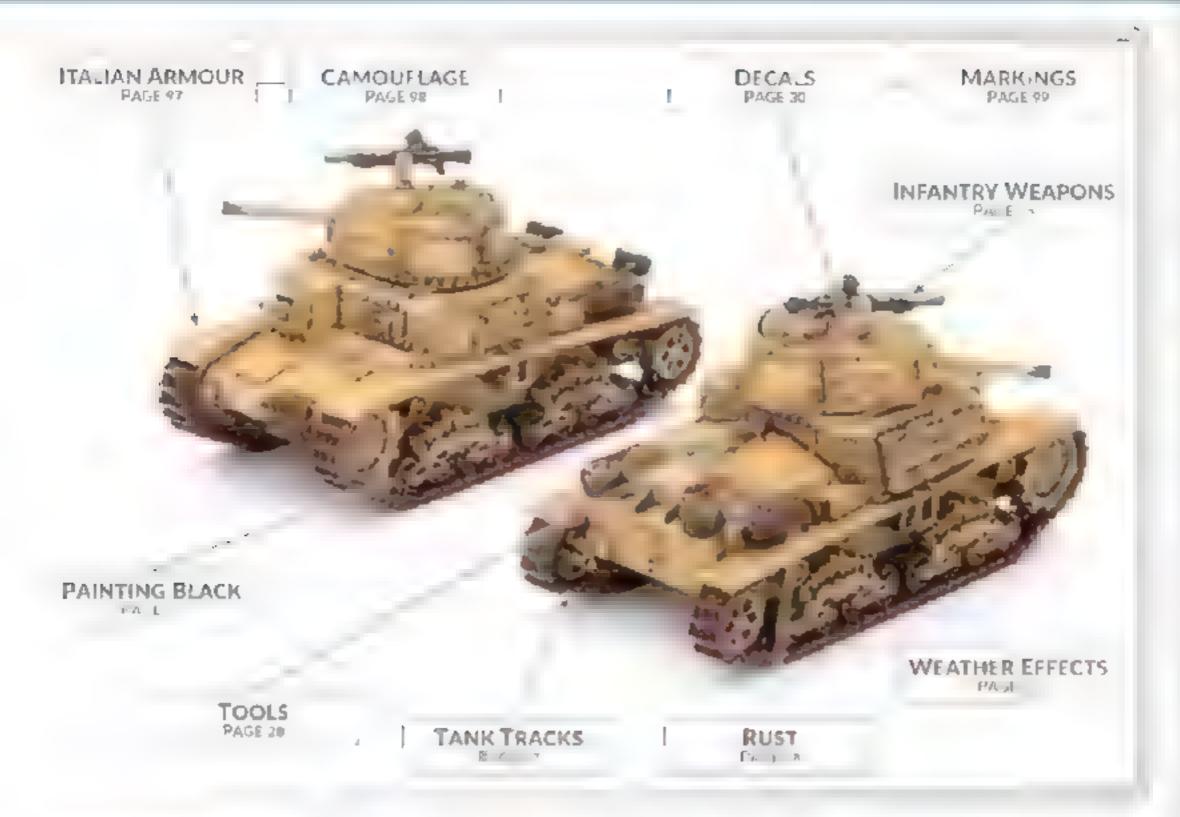


"The German soldier has impressed the world, however the Italian Bersagliere soldier has impressed the German soldier."
-Fieldmarshall Erwin Rommel

The Italians learned about modern warfare the hard was in 1940. Now they are back, showing the world what the Italian soldier can do Fighting under the famous. Desert Fox: General Rommel, they form a crucial part of the Italian German Panzer Army. Tough, determined, skilled, and aggressive veterans, the Italians broke through the British Gazala Line to save the trapped German Afrika Korps, held the line at El Alamein, and opened the way at Kasserine Pass, before holding up the American offensive at El Guettar. Fight or die for the new Roman Empire'







#### **ITALIAN ARMOUR**



tom february 1941 absis tames sent to



BASECOAT your tank with Green Ochre. In a thin coast are better than one thick coast.



HOY UP the wash with Green Othre using a combination of strybrushing and layering.



WASH the tank with Septa Wash. Try to achieve an even coverage over the whole tank, letting the wash pool in the recesses. Add a bit of Black Wash if you want a slightly darker finish.



DRYBRUSH the tank touch man Sand concentrating on edges, raised describ, and upper surfaces to aild ingilights.



#### **CAMOUFLAGE & WEATHERED PAINT**

#### COLOUR PALETTE





8.40









The est of the descent with

These to be seen as shown



BASECOAT your tank with Green Ochre.



WASH the time with Sepai Wash. Try to achieve an even coverage over the rehole tank, again, adding a bit of Black. Winds for a darker words if you like.



DRYBRUSH the tank with Intqi Sand, concentrating on edges, not ed details, and upper surfaces to add highlights. And small spott and screeches of Intqi Sand, concentrating on areas of high west and nearly use.



PAINT putches of German Field Grey over the Green Ochre, with for approximately 50% coverage over the Green Ochre



TIDY UP the wath with Green Ochre and German Fleid Grey using a combination of devbrushing and watering

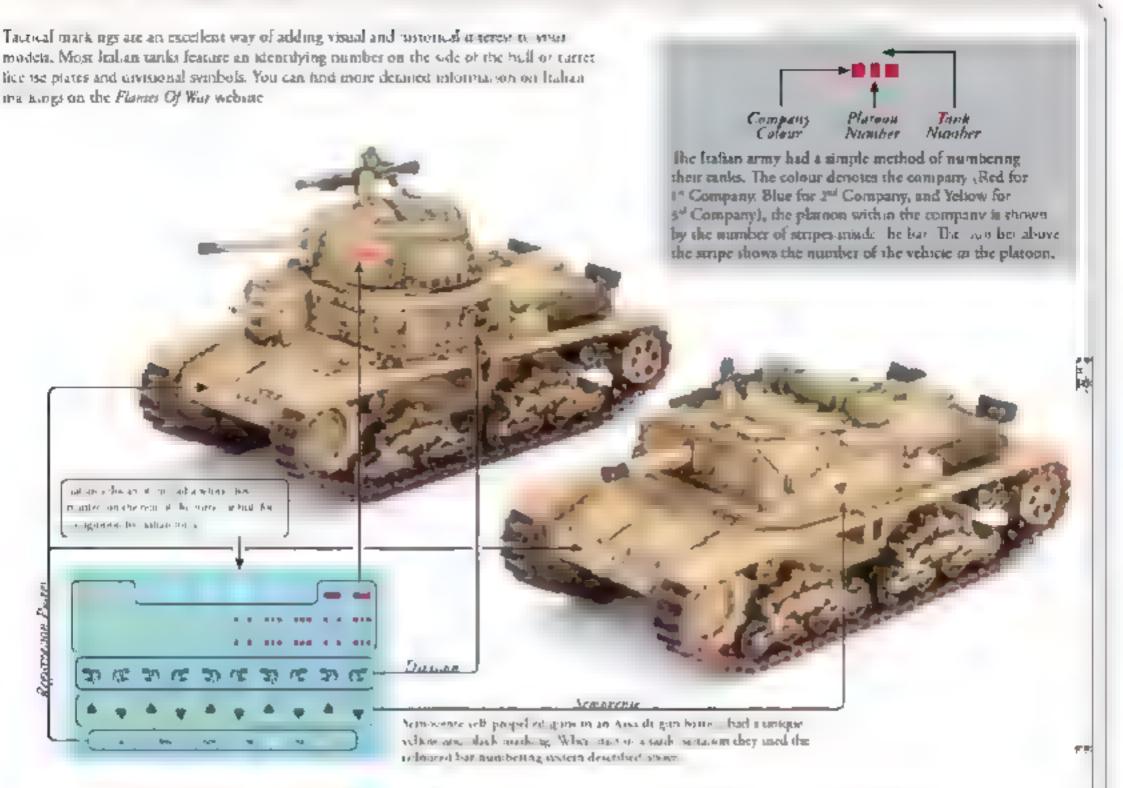


FILL IN the centre of the stops and scratches with Brack Gress leaving the righter edge shown in Town keep stops and for a realistic office.

You could use Gen Cam. Black Brown to fill in the centre of the scritches instead, as metal starts to turn brown as soon as its exposed to air. Look at old trucks the next time you are driving



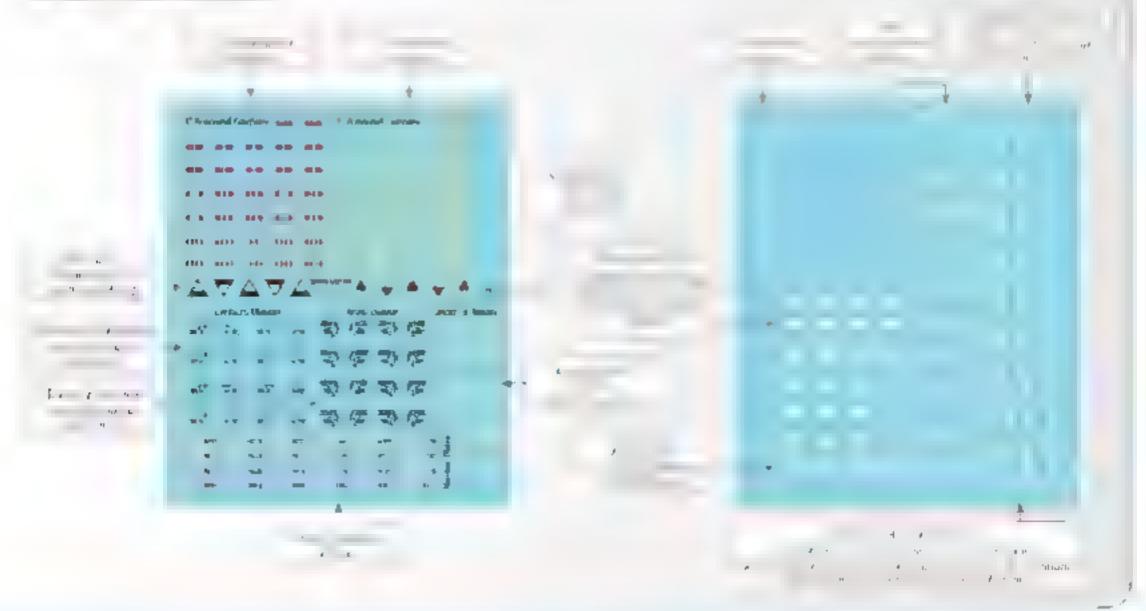
#### **ITALIAN MARKINGS**



Most not, have tome with the dead there shown here More dead uptions can be found on 1790) Italian Dieat Sheet detailed Below

#### **IT940 ITALIAN DECALS**

Whole the letter's Pamout hoses come with a good selection of necals, the Italian decal pack goes you allot more opinous. The thirty a dear an array who will be a selected as a second of the plantage of the





#### **ITALIAN INFANTRY**



Rifler 531 C 1 SEE INFANTRY WEARLING

> 1 400 SEFATES







BEIGE BROWN



in the desert the Berraghert were traced with a light entire tropical uniform. It was a veltowy tan colourin hije and is often described as Light. Khaki. Toomen and Tunica were the same colour, though most troops rerained their original Green-Greepurrees.

Helmers were painted the same sand colour as the tanks and vehicles, and were adorned with their traditional Cockerel feathers.

Some soldiers continued to wear green helmen, to you could paint some of the helmets. German Freldgers for a bit of varacty

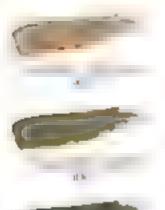
Often British sharp and Iromers were worn from captured stocks. These were in the lighter British Khaki Drili, Ineg: Sand (164) which make a good contrast on your desert unit-stem-

**QUIVE GREY** 

Smort Brush 🕋

#### DESERT UNIFORMS AND WEBBING

#### COLOUR PA FITTE





DESERT YELLOW

BASECOAT the uniform with Desert bettom, many two thru cours if necessary for an even coverage



WASH the figure with Septa Wash to add depth to the modes





PAINT the comme a coherent year bellow



PAINT the Putters Olice Gree-





HIGHLIGHT nessed areas of the antiform arebbing and Pattees with their same best colour





DRYBRUSH the model lightly with leagt Sand. Apply a heavier dribrials around the bottom of the model



#### EASTERN FRONT UNIFORMS AND WEBBING





BASECOAT the uniform with. Office Grey, using two thin court if necessary for an even coverage



PAINT the contras webbing year that he Greek



WASH our figure with Hlack Wash to add depth to the madel



HIGHLIGHT raised areas of the unifo in and webbing with Olive Grey



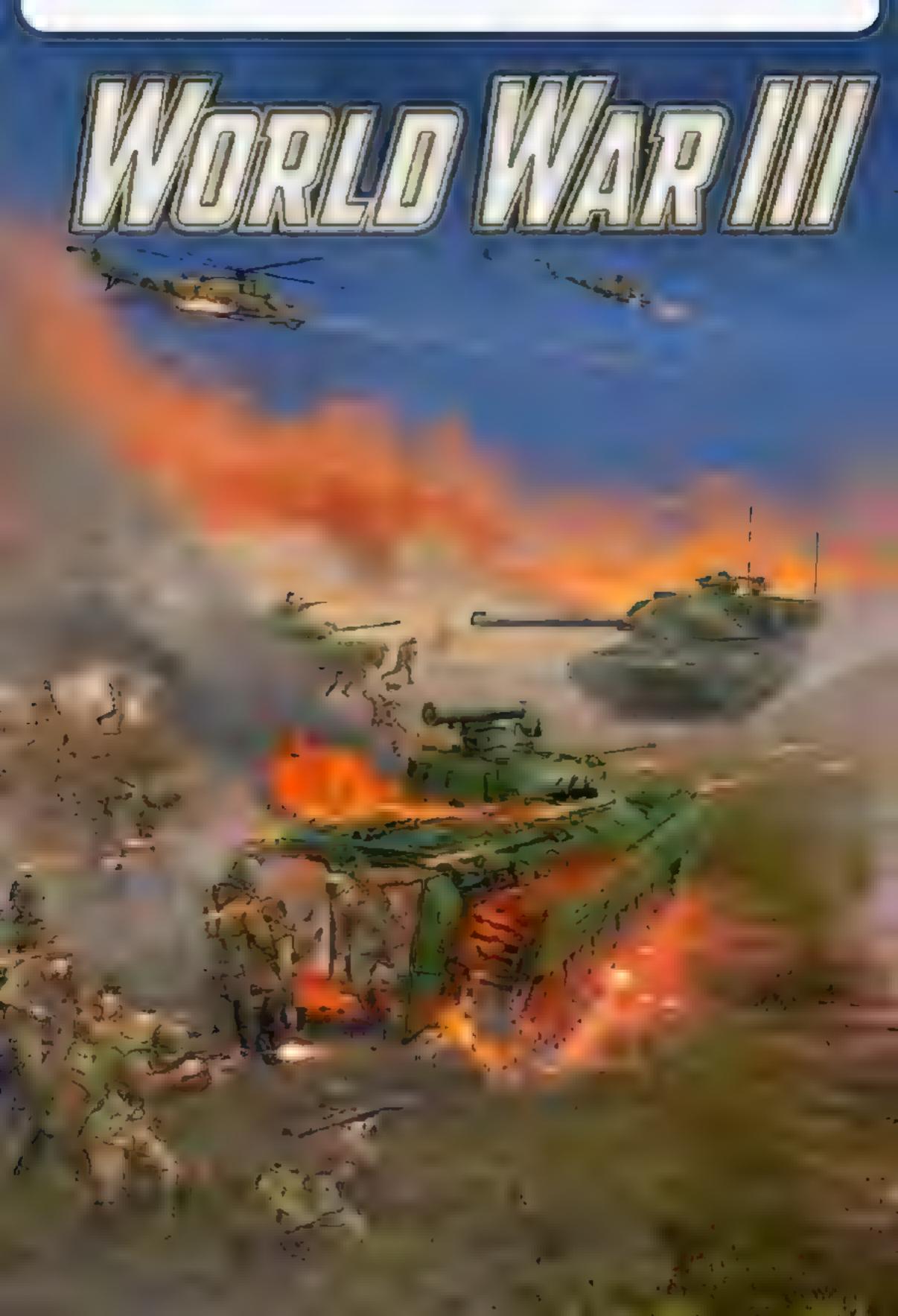
HIGHLIGHT caned areas up the un joint and webbing with Olive Grey



HIGHLIGHT dir uniform with a mix of Olive Grey and Stone Grey for added depth

#### ITALIAN VEHICLE GALLERY





Based on the book written by Harold Coyle in 1987. World War III: Jeam Yankee brings the conflict that simmered throughout the Cold War to life. You will command your troops in miniature on a realistic bottlefield.

In Jeam Yanker, a heavy combat team of M1 Abrams tanks and M113 armoured personnel carriers faces a Soviet Invasion of West Germany. Outnumbered and outguinned, Captain Sean Bannon and his men will have to fight hard and they'll have to fight smart if they are going to survive

I. Colonel Yuri Potecknov's motor tifle ballation is preparing to execute its mission in the scientific manner that the had been taught at the Franze Military Academy and used in Afshanistan. Victory today will bring the world proletarian revolution that much closer.





Collecting a World War III: Team Yankee army may seem daunting before you begin, but you will quickly discover how much fun it is. In fact, many find that they cannot stop at just one army or force, and usually end up with two, three or more forces at various stages of completion. Some people require patience and motivation to see an army through to the end. And many painters find themselves easily distracted by new miniatures for completely different forces all the time. But that is half the fun!

#### PLAN YOUR FORCE

There are two ways to go about collecting a World War III army: by looking through Army books such as Red Thunder, Leopard, or Stripes and finding a list that you think is cool, or by simply collecting the models that you like and then finding an Intell gence Briefing they fit into

The most important thing is to have a clear goal to help inspire you and give you the motivation to hoish your project.

There are a lot of things to consider when thinking about starting a World War III army. Check our our website, www.leam-Yankee.com for more information on the types of forces you can choose from



#### **PLATOONS**







# UNITED STATES

Bannon snapped his head to the left. There was no need to use a map. There was only one place where the Russians would be, and that was on the hill 2,200 meters away. All the training, planning, and preparation was over. Team Yankee was about to learn if the Team's seventy-nine men and twenty-five million dollars worth of equipment could do what they were supposed to do; close with and destroy the enemy by fire, manoeuvre, and shock effect.

The events in the background of World War III. Team Vankee are based on the novel by HW Coyle, a so dier serving with the US Army in Europe in the 1980s. Team Yankee is about one company, or team, called Team Yankee, a tank-heavy combat team under the command of Captain Sean Bannon in West Germany. At the start of the story the leam consists of eighty four men and a mix of mostern, high-tech weaponry as well as tried and true, if somewhat old, equip nent. Although the feam is a tank-heavy company team. It is attached to 3<sup>th</sup> Battalian, 78<sup>th</sup> Infantry (Mechanized), a mechanised infantry battalion.



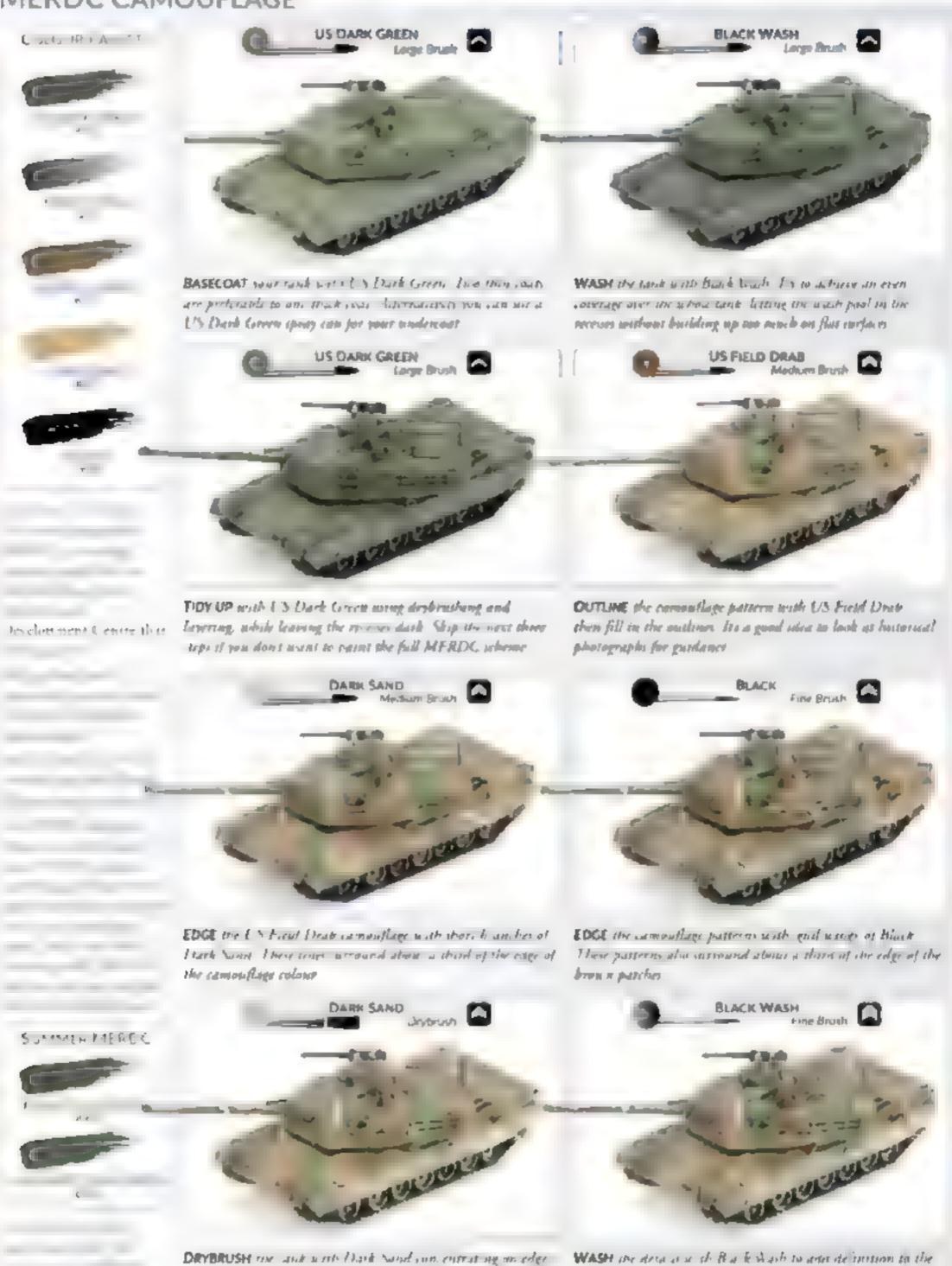








#### MERDC CAMOUFLAGE



pamouflage pattern

raised details, and upper merfaces to add highings a

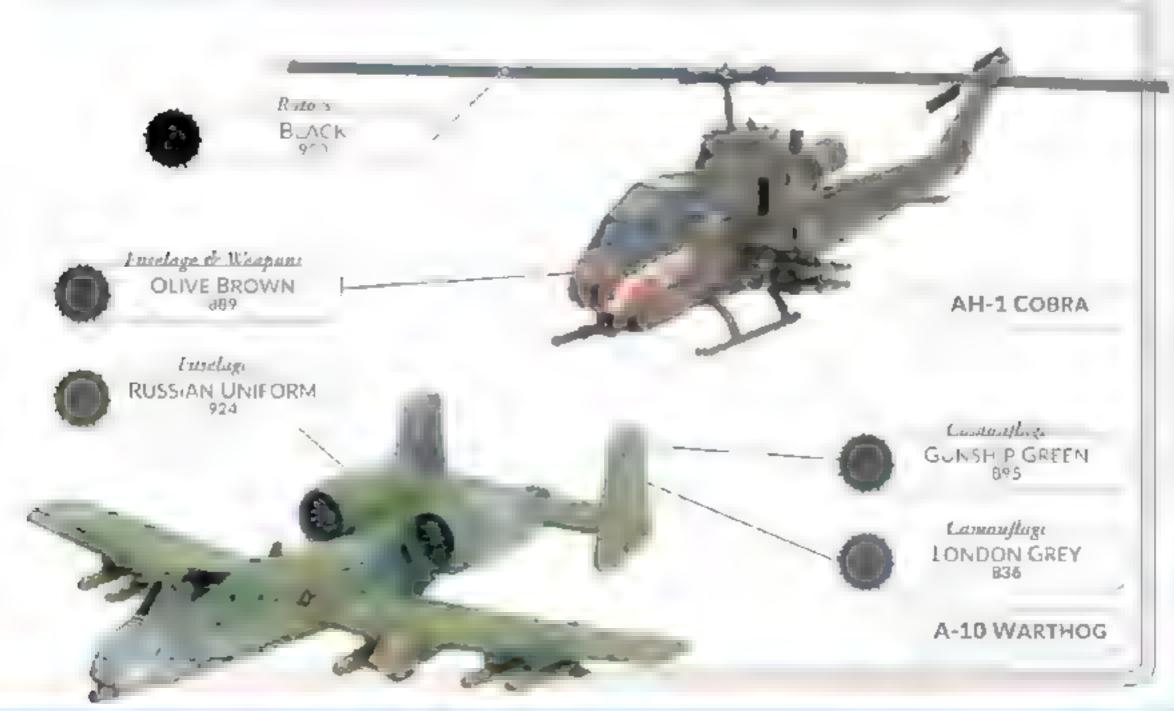
108



#### **US TANK MARKINGS**

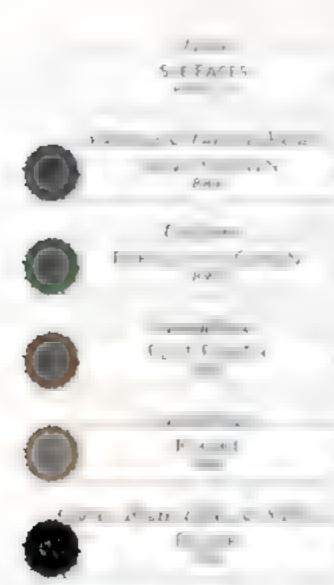


#### **US AIRCRAFT**





#### **PAINTING US INFANTRY**

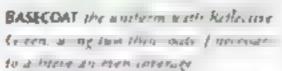




#### **EUROPEAN CAMOUFLAGE UNIFORMS**







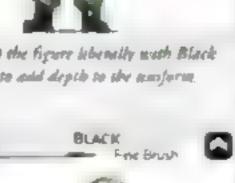




CAMOUFLAGE & 17th MILE PATILITY of houses over my about rull of he remaining Relieusive Creen



WASH the figure liberally with Black Wash to aid depth to the ausform.





CAMOUFLAGE AT IT fine lines of But & arrays the Fast Earth and Abake



CAMOUFLAGE unth must patches of Hat Earth covering about one-third of he uniform

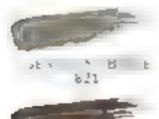


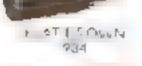
PINWASH came of the deep recents with Black Wash to ada more depth



#### **DESERT CAMOUFLAGE UNIFORMS**













γγ. τ, 951



GER, CAM. BEIGE

BASECOAT the uniform with Ger Cam, Beige suring two thin coats if necessary to achieve on even coverage.





WASH with a thinned down Biach Wash to blend the camouflage patches together.



FLAT BROWN

Large Brush

CAMOUFLAGE with small patches of Flat Brown covering about onequarter of the uniform.





CAMOUFLAGE with smalt quote of Brack and White



LIGHT BROWN

CAMOUFLAGE with amount patches of Light Brown covering about one-third of the uniform

#### WEBBING EQUIPMENT



201

OLIVE BROWN
Medium Brush

BASECOAT the webbing with Other Brown,



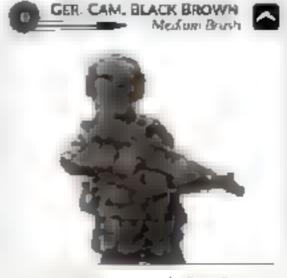
WASH the desart carefulty with Black Wash.



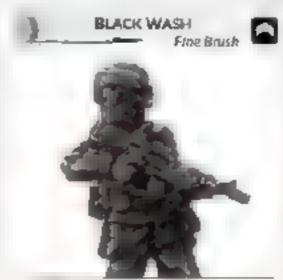
DON UP with another beyon of CH ve Brown

#### **AFRICAN-AMERICAN SKIN**





BASECOAT the thin with Ger Cam. Black Brown.



WASH with Buck Wash.



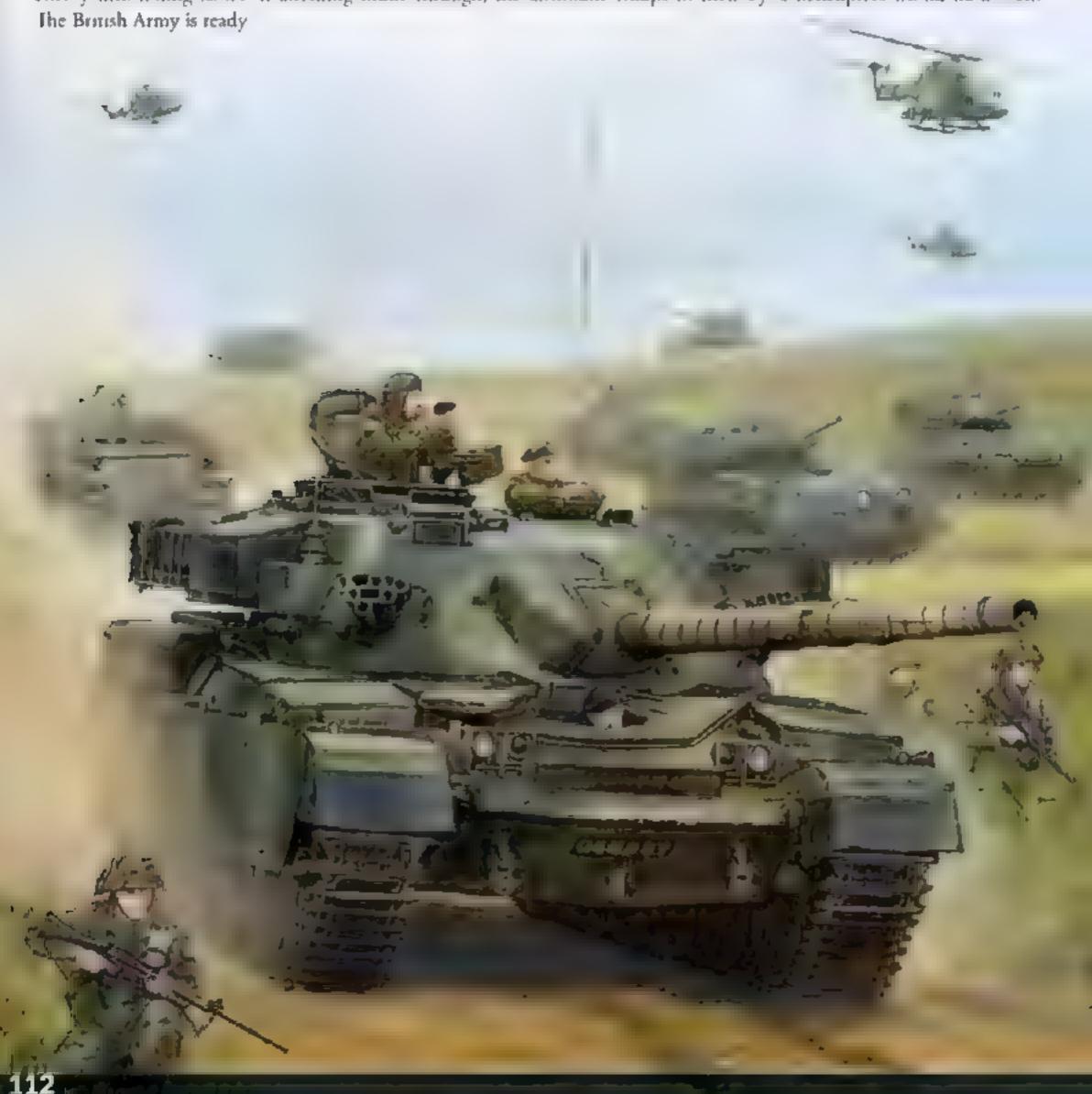
HIGHUGHT with a water of Leather Brown



# BRITISH & COMMONWEALTH

"We did not fight two World Wars to defend Europe from dictatorship and oppression just to hand it over to the next tyrant bent on world dominance!"

The British Army had prepared for war with its usual professionalism. Now, as the Soviet Army flooded across the border into West Germany, it was ready and waiting. Scorpion and Semitar light tanks skirmished with the Soviet forward detachments as the Chiefrain armoured regiments waited. The infantry held the towns and woods, forcing the enemy into killing zones. If anything broke through, the airmobile troops in their Lyox helicopiers would be done in the British Army is ready



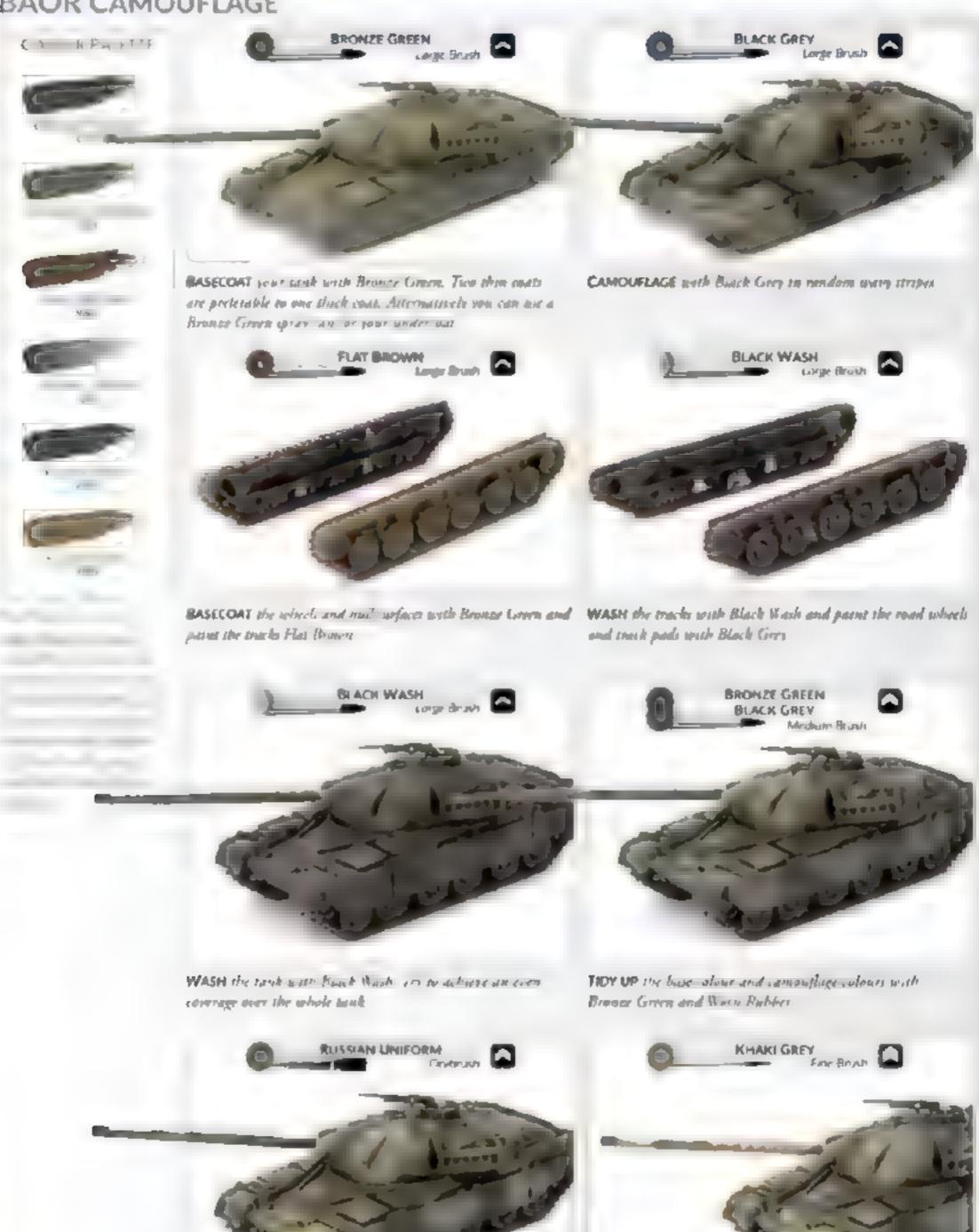








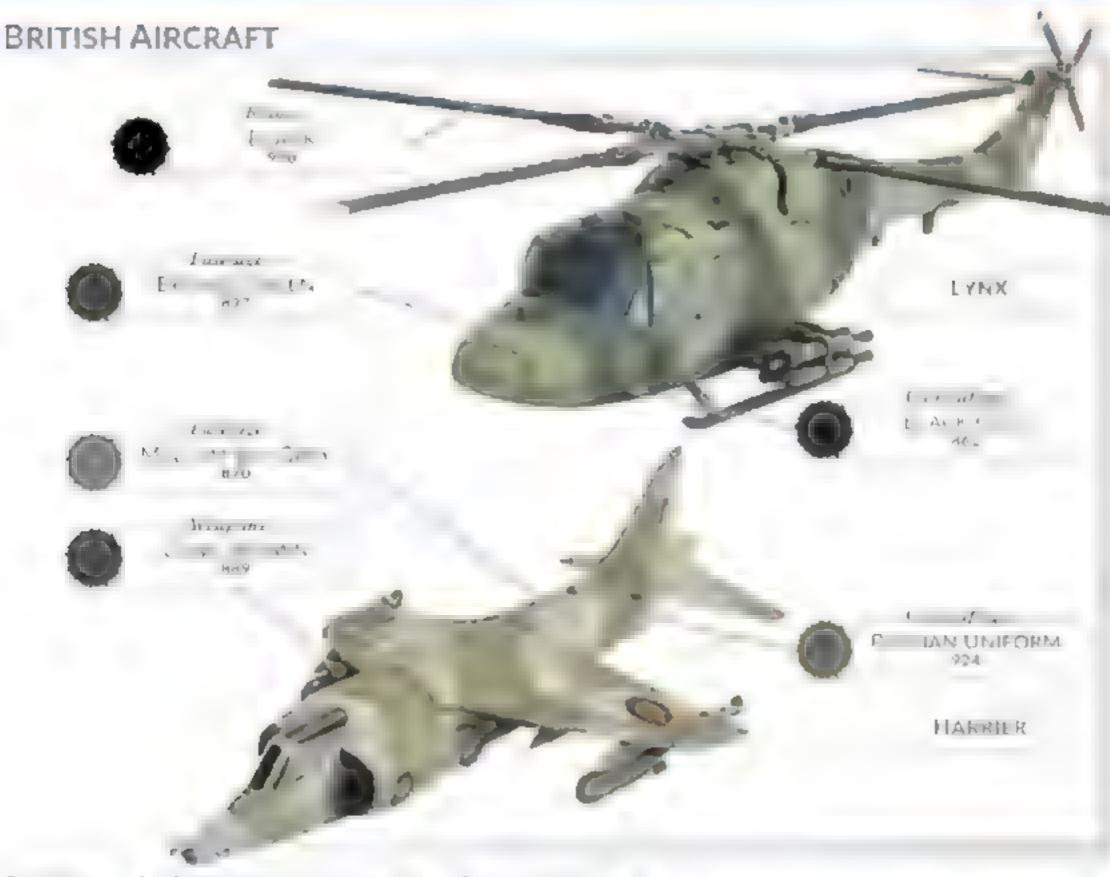
#### **BAOR CAMOUFLAGE**

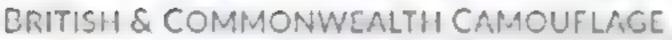


DRYBRUSH the and april Russian to a form to highlight the note colour Light a deployable over the Buick Grey to wear-inthe camouflage

PAINT the thermos were on the barre, un to khake Grey then wash with Black Wash. Dry brush with Khaki Grey.











#### WORLD WAR III BRITISH MARKINGS

s em than other NATO countries, which processes to be quite confusing

British WWII far some two two the same a similar pattern to the British WWII far some two two two the far some two two the far some two that the tank is from which shape of the marking denotes the squadron within the regiment.

Each Boscot schicles comes with a deca. sheet specific to the

Since you are likely to want multiple be sevol each vehicle type

mall force, and you should get more variety over the course of a should be a

#### **COMBAT VEHICLE RECONNAISSANCE (TRACKED)**

Scorpion, Scimitar, Sportan, and Striker's are part of the Combat Vehicle Reconnaissance (Tracked), or CVR T), family of vehicles. CVR(T) vehicles commonly either had a single number on the back of the turner or a number on either order (the had



#### **FV432 MARKINGS**





The FV432 randomly comes with either the TY015-A or TY015-B decal sheet. A single sheet gives you decals for up to

- 9x FV432 transports
- 3x Swinghrei
- 4x FV432 Milan section transports, or Spartan MCT's
- 4x FV432 Mortar Section Transports

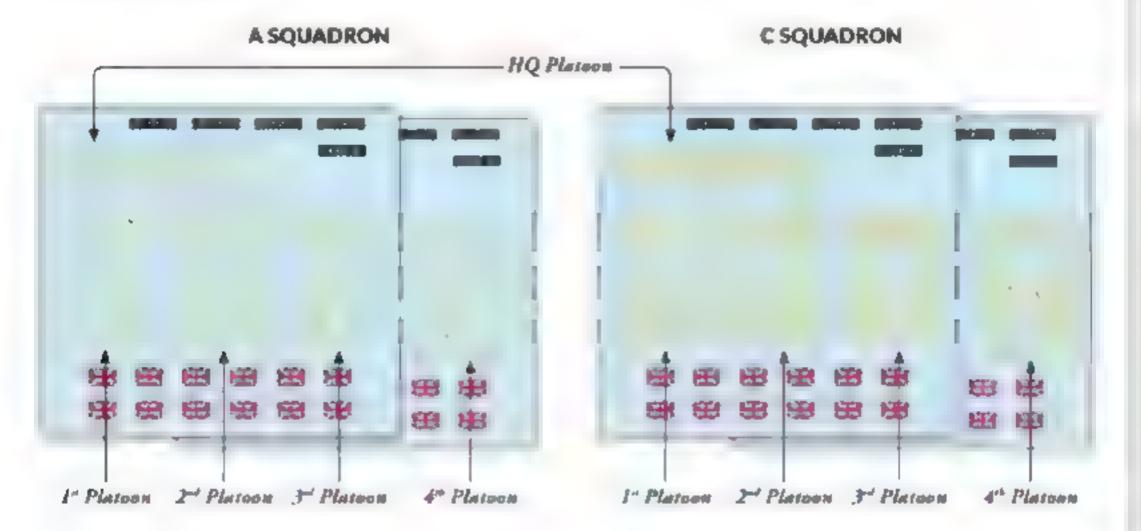
The 2 sheets have a slightly different arrangement of numbers. One sheet will give you enough decals for your force. Both sheets will give you all the variety you need. If you are building a Mechanised Rifle Company you'll need several boxes, so odds on you'll get at least one of each sheet.



#### CHIEFTAIN MARKINGS

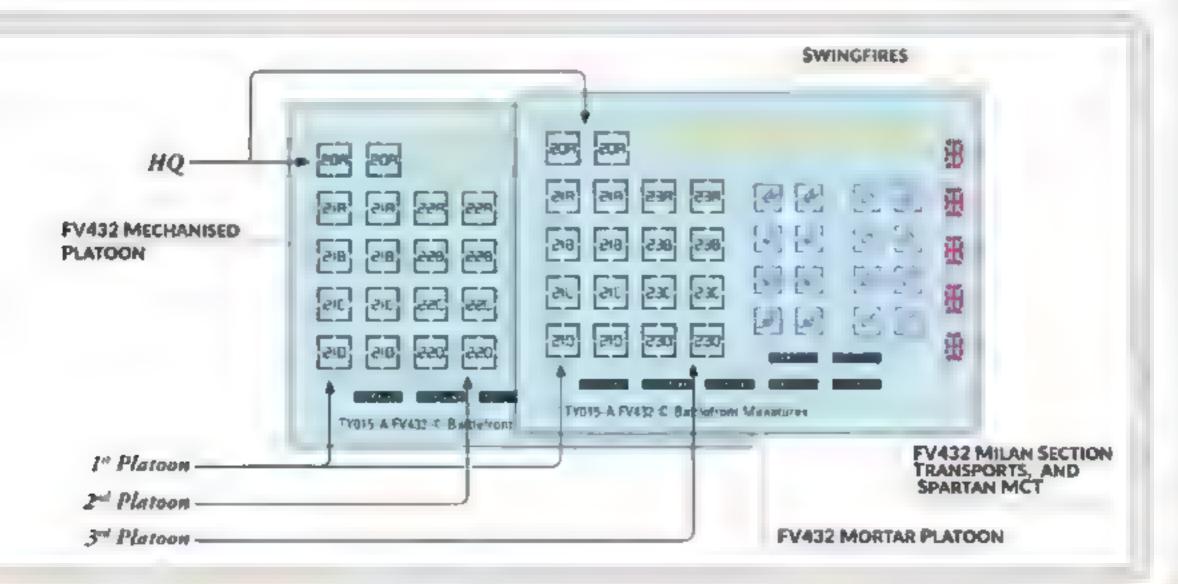
TBRABO1 Charles Chiefrains arms box and TBBA01 Chiefrain platoon coinc with Lot 4 random decals that allows you to mark your vehicles from either A Squadron or C Squadron of the L1 21st Lancers. Death or Glory Boxs

Each Decal sheet comes with enough decals for 5 vehicles that you can mark with 11 unique mimbers, meaning that you are guaranteed to be able to give at least three platoons and your HQ markings from the same Squadron, and more boxes should give you more variety.



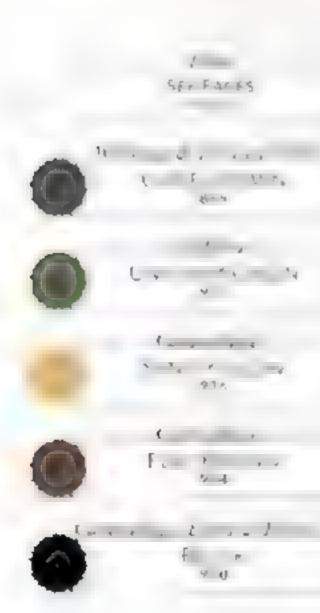
#### SUPPORT VEHICLES

TBBX06 Ac bot Held Batters. TBBX07 Trackets Rapier NAM Section, and TBBX08 M109 Held Batters asso come with this decal sheet as support vehicles were often marked in the same way as the tank squadrons, so if you end up with a good varies of dec. Is you can mark you. Chieftains from one squadron and us the other so radrons markings for your support vehicles.





### **BRITISH INFANTRY**

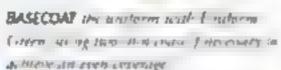




#### **CAMOUFLAGE UNIFORMS**



UNIFORM GREEN





A higher the even converge SAND YELLOW Fine Brish



CAMOUFLAGE with could stropes of Natural Yellows concerning about half of the unichrem.



WASH the treum liberally with Buight A act o need nepth to the un form

FLAT BROWN





CAMOUFLAGE with Flat Brown stripes in the appointe streetness to the Sand Trainin



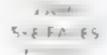
HIGHLIGHT nessed areas with Uniform GIFTH



CAMOUFLAGE some small branch shapes in Black

### •

#### **AUSTRALIAN INFANTRY**





SEE INFANTRY WEAPONS







#### **AUSTRALIAN UNIFORMS**



BASECOAT IN Minharm with Name Comp.

**OLIVE DRAB** 



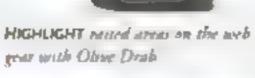
WASH the figure liberally with Buck Wash to add depth to the uniform



STONE GREY

HIGHUGHT naved areas on the uniform with Stone Com







CAMOUFLAGE with small date of German Camo Medium Brown and German Camo Dark Green



CAMOUFLAGE with small dots of German Camo Bright Green and Red Leather



### NATO

"Reports of NATO mobilisation have been flooding in from all over Europe. The Bundeswehr have mobilised their regular forces and massive troop movements have been observed as Federal units move up to the eastern border. American, British, Dutch, Belgian, and Danish troops have also begun taking up positions in the Federal Republic."

The defence of Western Europe was not just in the hands of West Germany, the United States, and Britain, but in fact the responsibility of all NATO's members. European NATO partners, like the Netherlands and France, took major responsibilities in NATO defensive plans. In addition, North America was not just represented by the United States but also by their Canadian neighbours to the north.







INFANTRY WEAPONS

MARKINGS



NATO ARMOUR

WEATHER EFFECTS

surfaces, to add highlights

TOOLS

#### **OLIVE DRAB VEHICLES**

receises dark.





#### NATO 3 COLOUR CAMOUFLAGE





BASECOAT were sank with Reflective Green. Two thin coats are preferable to one in a coat. Alternatively you can use a Reflective Green spory can for your undercoat



PAINT Purches of Buck Ceres in accordance with the paint templates from where learn Yankes come.



PAINT Parches of Flat Earth following the paint templates.



DRVBRUSH the tank with leage Sand, concentrating on orgen an aid detail and upper surfaces to aid highlights



BASECOAT your tracks with Ger Cam Medium Brown, Keep the tracks reparate to make them easier to paint. Rimember that the top of the rack will be hinter to be the track guards.



WASH the trucks with Black Wath, then pick out the much hads with Black Grey



DRYBRUSH the solver areas of the sands oncentrating on the flat surfaces so give the effect of reasy as a

And me do at betwee despending the least Sand was map give it the painted-on look



TARGET WASH the desails with Black Would to add definition to the sets of your may find it easier to apply jour target would it was give the retraile a court of plant carriers past that unit help dull down the eage bigologists if they are a bit beight.



#### WEST GERMAN TANK MARKINGS

MA TEN A TRIPLET

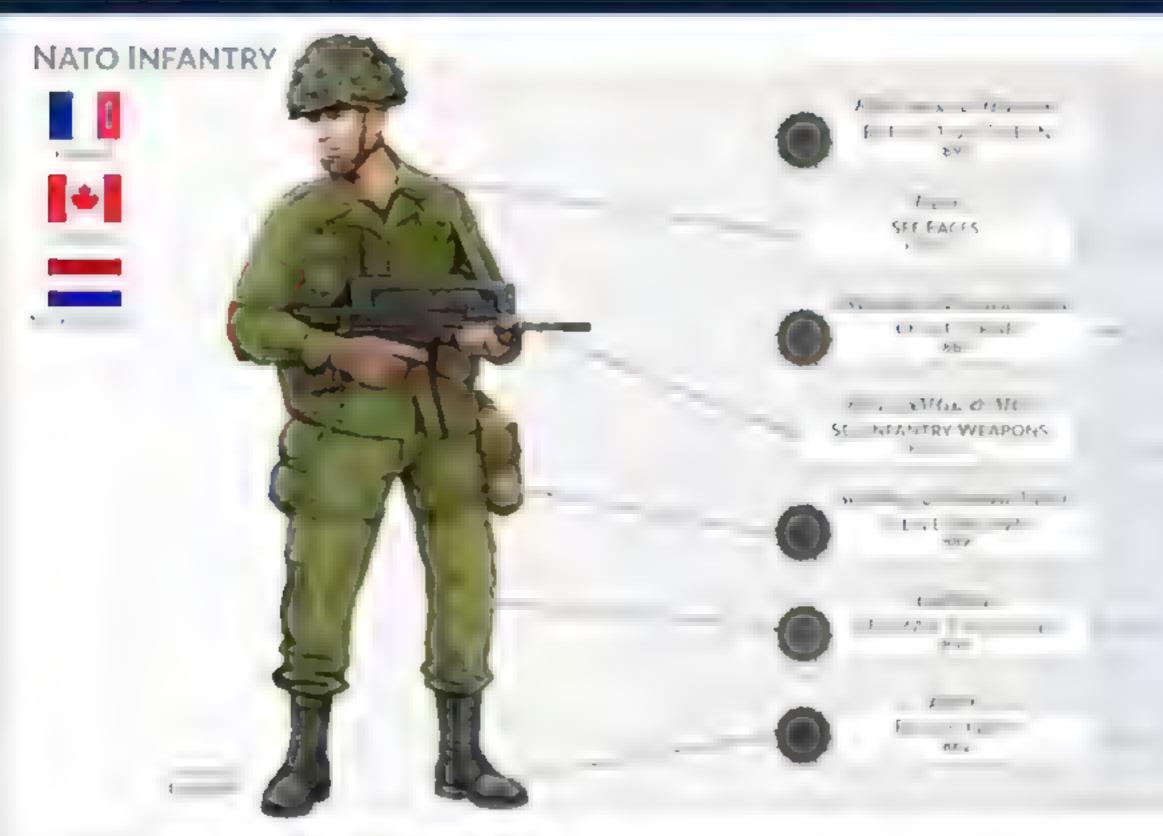


I he the American Army the German Army now attached who and one-hap see or fairness impanted network between battachens go the each type nome in egic or special forms the other. These some same same a faither involution as a position of the other has be taken to companies producing a combination.

The example beam is a Leopard L. Kample, up per that his imapped one is a spla outsition a flameogramatic platour. Since the flavorigimation Zing is mes from a different bactation of likely in have a different company number.





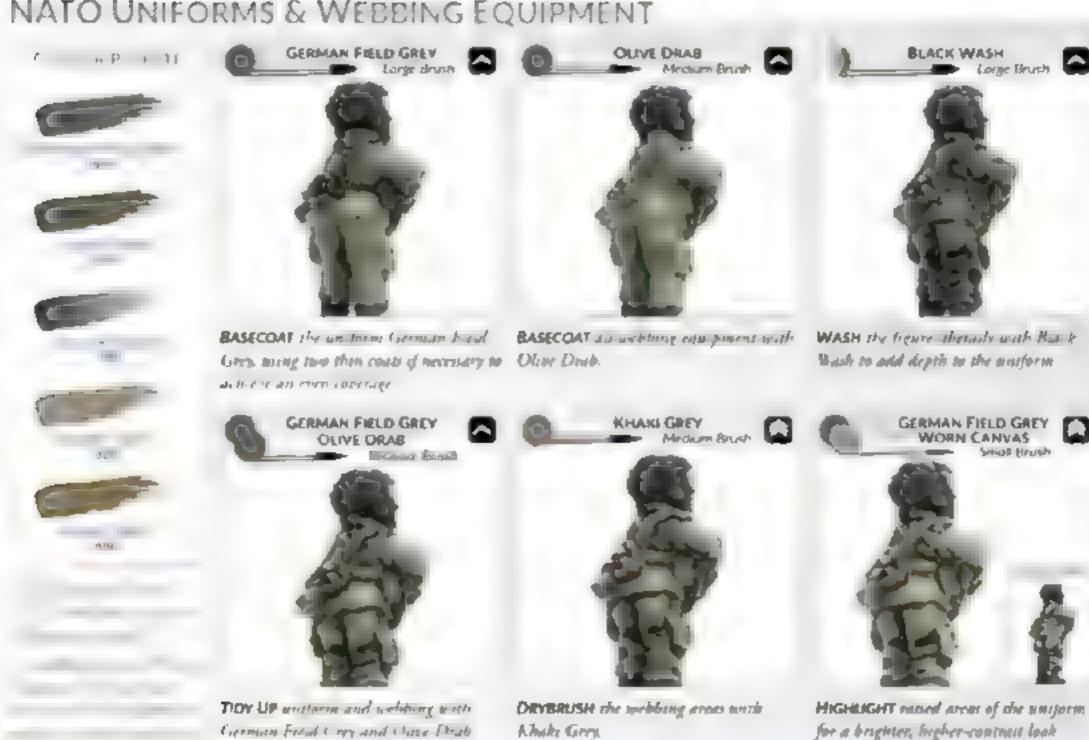


Lorge Brush

Smot Hrush

#### NATO UNIFORMS & WEBBING EQUIPMENT

wasing distant in the research areas





#### GERMAN INSIGNIA









Tiew UP the odges of the sungusa with German Exeld Green





### WARSAW PACT

"A meeting of the Warsaw Pact ministers ended today with a pledge to stand together in the face of threats and increased war preparations on the part of the United States. Representatives from Poland, the German Democratic Republic, Hungary, Bulgaria, Czechoslovakia, and the Soviet Union released a joint statement pledging to meet American aggression against any member state with retaliation in kind."

- TASS news release, 28 July

The 1970s saw a huge build up of military strength on both sides of the Iron Curtain, along with intensive efforts to modern se the ground forces' weaponry. Now in 1985, both NATO and the Warsaw Pact have huge armies deployed and ready to fight, with even more in reserve. The latest weapons are being deployed in ever increasing numbers.

The main Soviet forces are the Group of Soviet Forces in Germany (GSFG) of 25 Soviet and German divisions in the GDR, the Northern Group of Forces (NGF) of 16 divisions in Poland, and the Central Group of Forces (CGF) of 15 divisions in Czechoslovakia, a rotal of 56 divisions with around 13,000 tanks. This doesn't count the divisions in the western parts of the Soviet Union that will form the immediate follow-on waves.





EAST GERMAN ARMOUR

INFANTRY WEAPONS

DECALS PAGE 1



SOV ET ARMOUR

PAINTING BLACK

WEATHER EFFECTS





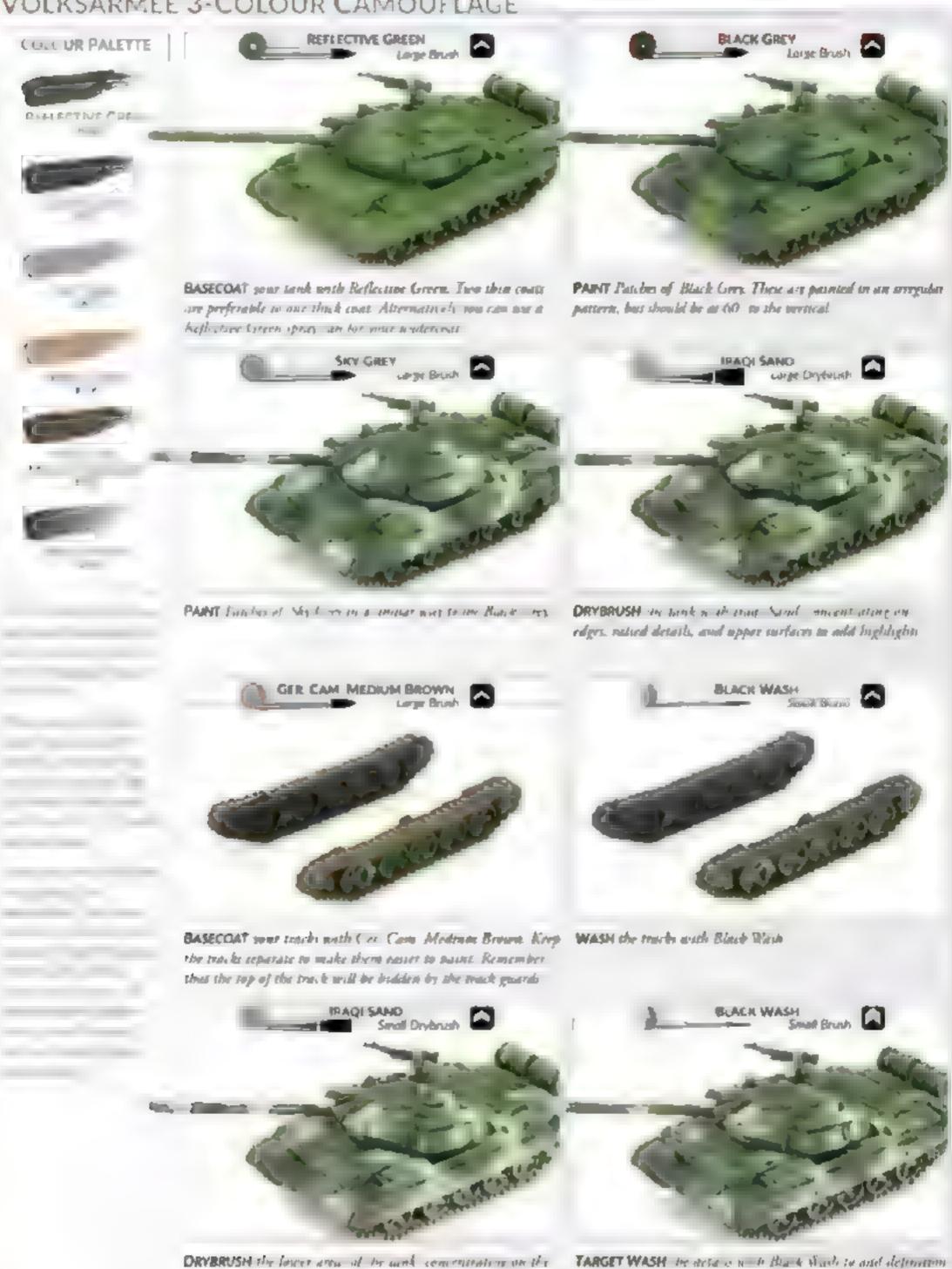
#### **SOVIET ARMOUR**







#### **VOLKSARMEE 3-COLOUR CAMOUFLAGE**



to the release how must had it easier to apply your target with from goe the remark a sourcef glo much the t

But without to give me effect of mean lead would

give it the painted-on look

Adding decay before droben hing no Iraqi Sand u.ii. heip



#### SOVIET INFANTRY



SELFACES

C AVAIRY BROWN

Kiffer & Squad Automatic

Hztilune Khaki

> C nsfarm KHAKI GPE v

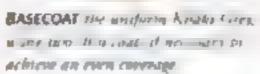
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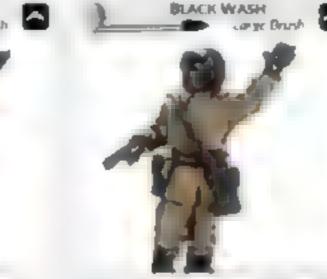


#### SOVIET UNIFORMS









WASH the firmer tibera a with that be Wash to add depth to be uniform



TIOY UP to anothern with Khalis Core to a very more disasses in the received areas



HIGHLIGHT the edges and nated folds of the uniform with libets.



PAMT the shoulder boards and coller take Cancing Brown



#### **EAST GERMAN UNIFORMS**



GER CAM BEIGE Large Brush

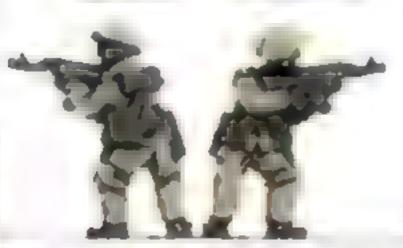
**BLACK WASH** corge Brush

BASECOAT the uniform (see thank there were flow in a wat of necessary to achieve an even coverage.

GER CAME BEIGE

WASH the I gave observely with Black And to wild depth to the uniform





**BRAQI SAND** Fire Brush

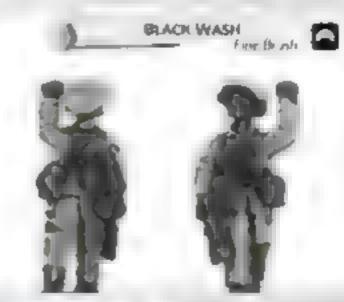
TIDY UP he wristorns with the Cam Berge maring dark shadown on the recovered arrest.

HIGHLIGHT the edges and rancel talk of the we from a the Troops Sand

#### **EAST GERMAN CAMOUFLAGE**







BASECOAT the till goten frage hand in life the e total coat of nevertary to achieve an even coverage.

WASH the Court absences with Busin Warn to add depth to the antifered







TION UP the minform with Iraqu Nind, was no dark fluidates. up the received areas.

PAINT verts a streaks on the undorm. The thinner and closer together the streaks are the most accurate the uniform will lour





#### METALLIC COLOURS, TRANSPARENT COLOURS, AND GLAZES



## CONCLUSION

Thank you for taking the time to read Colours Of War. Even if you thought you had nothing left to learn about painting miniatures, we hope you have found something of interest. If you genuinely feel that the way you paint right now is 'good enough', then that's fantastic! By all means keep doing what you're doing. But since you picked up this book, it seems unlikely you are entirely satisfied. The fact is that everybody's painting can improve.

Stay interested in painting. That sounds obvious, but it's something a lot of grizzled veteran gamers have partly forgotten. If you go to tournaments, try to find time to admire other people's painted armies. You may pick up some useful tips or inspiration. But also, after all the hours that go into assembling and painting an army, it's gratifying and encouraging when that work does not go unnoticed.

Try not to be too catisfied with how you are painting right now. Always be on the lookout for new ideas and techniques. Painting and modelling is a vast subject, and there are a wealth of topics we have not yet covered: painting with an airbrush, 'pin washing' with oil-based paints, using pigments and weathering powders, and much more.

If you're just starting out, then you are lucky for a couple of reasons: you haven't settled into a rut yet, so you are open to new ideas; and you will inevitably get better just by practising. Look at other people's painted models a lot, and look at your own even more, especially while you are painting them. Think about your painting process and try to make each miniature look a little better than the one before it. Try not to get frustrated, because your painting will improve.

And most importantly, remember to enjoy yourself. So what are you still doing here? Go paint something!



## COLOURS OF WAR

Welcome to Colours Of War, a detailed and comprehensive system for painting World War II and World War III: Team Yankee miniatures. Painting historical miniatures is a fun, creative and rewarding pastime. For historical wargamers everywhere, a beautifully painted miniature army is a joy to behold. And that is exponentially more true if you have the satisfaction of knowing that you painted it yourself. Whatever your level of experience or ability, the Battlefront studio has devised the Colours of War painting system to be useful to you.

This book will help you get the most out of your Flumes Of War models, whether you have been painting wargaming miniatures for years or have just picked up a paintbrush for the first time.

Calour Of War is a holistic, integrated painting system, where the paint range and the painting guides have been developed simultaneously, designed to give great results with the smallest possible investment of time and effort. No how-to guide can ever hope to transform you into a world-class painter overnight without practice and devotion, but this book, combined with its accompanying range of high-quality acrylic paints, is a good place to start.

A diverse assortment of resources can be found to tell you how to paint. So much information is out there that it can be confusing and difficult to know where to look. But Colours Of War brings all the crucial information and techniques together into one simple, easy-to-follow volume.

#### INSIDE YOU WILL FIND:

- Tips and tricks for preparation and assembly.
- Advice about the theory and practice of painting.
- Historical information about the equipment, colours and markings used by each of the five main combatant nations in World War II: Americans, German, British, Soviets, and Italians.
- Painting Guides for the main participants in World War III: Team Yankee: Americans, British, NATO, Soviets, and Warsaw Pact.
- How to base your miniatures for maximum impact.
- Step-by-step guides covering everything you need to get your armies painted and on to the table quickly and effectively.
- Tips and tricks developed by the Battlefront studio over years of experience.
- Inspirational colour photos.





Designed in New Zealand Printed in Europe

#### ISBN 9781988558066

Product Code FW918

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